



(3)

(6)

特開平11-232192

[illegible]

[0015]

【本稿の実験的形態】本稿は、インターネットなどの通信システムでの電子メール・メッセージのアーカイブ、取込及び検索のためのデータ処理システム（ウェブ・データベース）を構築する、電子メッセージをHTML文書（ウェブ・ページ）に変換することによって、本稿のデータ処理システム及び方法は、通信システムのユーザーにより、柔軟性を提供する、電子メール・メッセージのウェブ・ページとして格納することによって、メール・メッセージのそれとを、相互明示したHTMLフォーマットで表示することができる。ウェブ・ページ・フォーマットでは他の言語またはプロトコルを要及むことができない、メッセージ全体をHTMLフォーマットにする必要はないことと留意されたい。たとえば、本稿の必要範囲内では、メッセージの一部をHTMLに1回に変換することができる。さらに、本稿のデータ処理システムは、その変換は、その変換後にはHTMLに標準化に基づく、本稿を用いると、電子メッセージのアーカイブに、検索エンジンなど、文字とワイルド・カード・ウェブに於いて使用するために格納されたすべてのツール・アプリケーションに適用できるように、このアクセス可能性によって、本稿が、アーカイブ・フォーマットの要するウェブ・ユーザの利用である技術的ツールとして用いられる。このアクセス可能性は非常に有用である。

【0016】さらに、本発明は、電子メール・メッセージを、外部ユーザの所望に送

と特徴を持たせたいことでの、記憶空間に蓄積するためのデータ型型システム及び処理を実現することに留意されたい。このような記憶空間は、インターネットなどには別の関連ネットワーク内でHTML文書を格納するなどの役割で和風型記憶空間を構築する。本発明の1実施形態では、このような和風型記憶空間を、フォルダとして実装する。したがって、本発明を用いると、電子メール、ウェブページのアーカイブを、非常に自然に和風型にナビゲートして見ることがユーザ間で実現できるようになる。

(5)

電話 11-232192

マイクセルは、独自のフォーマットで提供されるので、そのフォーマットを明らかにしているツールでなければなりません。さらに、Lotus Notesでは、ユーザーは、アーカイブまたはアーカイブの一部を簡単に検索できない。逆に、ユーザーは、画面をプロセスで迅速なバー上の検索データベースを作成することによって、マイクセルを使用できるが、そのためには、そのアーカイブをインストールするユーザーの全員が、同一のソフトウェアをインストールすることが必要になる。

【009】したがって、ユーザが、HTMLを使用し  
て、受信した文書を自分で選択したカテゴリに編成でき  
るようにするデータ処理システム及びデータ処理方法の  
必要が存在する。

[illegible][illegible]

【0012】さらに、第3の形態では、コンピュータ・ネットワーク内で電子文書を構成する方法が提供される。この方法には、複数の電子文書を複数のグループに構成するステップと、複数のグループのそれぞれに対し、URLを定義するステップが含まれる。

【0013】さらに、第4の形態では、電子メール・システムが提供される、この電子メール・システムには、複数の電子メール文書をグループ化するために複数のカテゴリを作成するカテゴリ作成部が含まれる。複数のカテゴリのそれぞれに、URLが割り当てられる、この電子メール・システムには、複数の電子メール文書を受信する受信部、受信した電子メール文書を各カテゴリのそれぞれに、URLが割り当てられる、この

時には、ユーザは、通常は、新しいアプリケーションと通信するために電子メール・メッセージング・システム内のアドレス・コロンを修正することができない、というようにしてアクセスできず、修正できない独自フォーマットを用いて実装されているからである。さらに、このユーザを拒絶する電子メール・システムでは、簡単にメッセージを利用することもできない。逆に、ユーザは、概三者（ユーザ・メッセージング・システム）の同意を得なければならぬが、パスワードの交換のみを介して他者と情報を利用するための手配を行わなければならない。したがって、インターネット環境では従来の電子メール・メッセージング・システムの強みは従来の電子メール・メッセージング・システムは、WWW、WWWの進展によって概略された技術的進歩に追いついていない。したがって、電子メール・メッセージングの接続、受信及び/あるいは送信時にユーザにより大きな柔軟性を与える電子メール・メッセージング・システムの必要が存在する。さらに、WWWに見られる変化は技術に匹敵するメッセージング・システムの必要が存在する。

【0007】さらに、このような従来の電子メールアドレス、メッセージング・システムは、通信ネットワークを介してユーザが受信したメッセージ、メッセージング・システムに文書を転送する上での柔軟性をユーザが選択できない。このような従来の電子メール、メッセージング・システムは、メッセージングの発信者またはメッセージ受信の日時に基づいてメッセージをソートする方法を提供することができる。しかし、ユーザは、独自の必要または使用目的に従ってメール、メッセージングを編成したいと考え、可能性を欠く。Lotus Notes (商標)、電子メール、メッセージング・システムの例である、ユーザは、受信メッセージに適用される1つまたは複数のカテゴリを指定することによって、受信メッセージを結合することができる。メッセージは、カテゴリに分けられずに到着することになり、ユーザがメッセージを結合することに留意されない。ユーザがメッセージを結合することに類似した時に、電子メール、システムは、ユーザに、そのメッセージに適用するカテゴリを選択する機会を与える。ユーザが選んだものは、すでに存在する可能性がある既存のカテゴリに加えて、またはそれの代わり、新しいカテゴリを作成し、メッセージに関連付けることもできる。

【008】このカテゴリのシステムは、電子メール・データベースの検索に非専用であるが、逆さの例題をこむる。具体的には、ユーザが、メッセージの一環またはサブアクションにインデックスを付けることではないが、Lotus Notesでは、訂正された材料の多数がデータベースで、メッセージ全体である。これは、複数ユーザにとって非常に重要な事項になる可能性がある。さらに、Lotus Notesでは、ユーザがされたメッセージに対して、Notesでは、アクセスすることもできる。

異体字に書くと、本発明を用いると、これらのアーカイブ媒体の複製品が複製時に容易に破壊される。ウェブ・サイトの閲覧と同様に迅速に実施されるウェブ・ページの複製を可能にするようにすることが必要である。また、ほとんどのすべてのオペレーティングシステム上、フラットホーム用のブラウザが互換性を持っており、アーカイブを実行するユーザが同一のソフトウェア環境で、フラットホーム・インストールする必要があるとは限らない。ユーザが所望する精度のレベルで行うことができ、たとえば、ユーザは、アーカイブ全体、アーカイブの一部、または、ユーザは、単一のメッセージ、または、アーカイブ内の1組のメッセージ、単一のメッセージを含むメッセージの一部だけに付与するアクセス権を有することができる。

【0017】本発明のデータ処理システム及び方法の要旨は、電子メールの頭部の一部分に、対応するURLを付与して、本発明の1実施形態では、メールアドレスが割り当てられて、本発明のメールアドレスまたはメールアドレスのサブセクションのURLを、そのメールアドレスを含むカテゴリーに適用して生成する。さらに、本発明の実施形態では、メールアドレスの頭部の一部分、メールアドレス自体、メールアドレスのサブセクション及びメールアドレスのサブセクションのURLを強調するためのカテゴリーのそれぞれを、互いにリンクし、有用で強固なインデックス作成機能と相互参照機能を生成することができる。さらに、ウェブページとして生成され、メールアドレスを構成することによって、ユーザが、MozillaやNetscape Navigatorなどのネットワークブラウザにアクセスし、利用するのを可能にする。本発明の実施形態は、後述詳細に説明する。

【0018】本発明の特定な特許を行う前に、本発明が動作する装置の概要を簡単に説明する。さらに、以下の図面は、本発明の特定の態様に示す。以下に、本発明の形態的な特徴を示す。しかし、本発明をこのような具体的な形態に限定して教示することとは、当業者には明白である。したがって、本発明をそのような具体的形態で示す限り、それ以外の場合では、堅固な詳細と本発明を不明瞭にするために、図面はプロパティの形式で示された、タイミングの如何などに関する情報は、本発明の完全な理解を得るのに必要であり、図面技術上における通常の技術を習得する者の技術によられるものである限り省略した。

【0019】これら図面に参照するが、図示の要素は、必ずしも直す通りではなく、図面または説明の趣意を以て、以下図2の説明は、本発明によるネットワークである、以下図2の説明は、本発明によるネットワーク環境を示すために提供される。

(7) 861227-11 土庫

装置 220 と通信する SCSI (small computer system interface) アダプタとすることができる。通信アダプタ 334 は、システム・バス 332 と外側のネットワークと相互接続し、そのデータ処理システムへのデータ処理システムと通信できるようにする。入出力装置 6、モニザ・インターフェース、アダプタ 322 及び表示装置アダプタ 336 を介してシステム・バス 332 に接続される。キーボード 324、トラックボール 325、システム・バス 332 に相互接続される、表示モニタ 338、新設装置アダプタ 336 にユーザシステム・バス 332 に結合される。この中で、ユーザは、キーボード 24、トラックボール 332 または マウス 326 を介してシステムに入力することができる。システム 328 及び表示モニタ 338 を介してシステムから出力を受け取ることができる。

【0022】例に示すように、ワイルド・ワイド・ウェブでは、ハイパーテキスト転送プロトコル（HTTP）を要する。インターネット上のサーバの構成である。ハイパーテキスト・マークアップ言語（HTML）としてWebの環境ページはブラウザを使用して、Webユーザがファイルへのアクセスを促す。既知のアプリケーション・プロシージャである。これらのディレクトリ・ブラウジング・システムは、西暦1990年頃には存在しなかった。

【0023】データ処理システム300のCPU310を使用して、ソフトウェアで構成される別回路装置を実行することができ、また、バーサスは、別回路装置と接続することもできる。バーサスは、コンピュータ・プログラムの動作のために必要となるハードウェア、例えば、プログラム・メモリ等の特定のハードウェア・プログラム・メカニズムを決定するソフトウェア・プログラム・メカニズムのサブシステムとして実装できるように設計された。

は、テキスト、グラフィックス、音声、アニメーション、データベース、アプリケーション、画像、音声、アニメーションなどの異なるフォーマットとすることができることによって、HTMLは、基本的な文書書式設定を提供し、HTMLを用いることで、読者は、他のサーバーまたはファイルへのリンクを指定するようになる。つまり、HTMLは次のように入力した場合と等価な結果を得る。コマンド文字列プロセッサ [0025] パーサの例が、コマンド文字列プロセッサである。パーサの群組を説明を行うために、外部ユーザが DOSプロンプトで次のように入力した場合と等価な結果を得る。

DIR:ENDDATA/P  
パラメータは次のサブプログラムで提供される。  
コマンド = "DIR"  
パラメータ = "0:ENDDATA"  
オプション = "P"

図3は、本発明の方法論を実行する「クラ  
イアント」212を構築するために使用することのできる  
データ処理システム300を示す図である。データ処理  
システム300には、マイクログリッドなどの中央処  
理装置 (CPU) 310が含まれる。CPU 310は、シ  
ステム・バス312を介してさまざまな他の構成要素  
に結合される。記憶装置メモリ (ROM) 316は、シ  
ステム・バス312に結合され、ROM 316には、デ  
ータ処理システム300の基本構成の一例を制御する指  
令が入力されたシステム (BIOS) 314が含まれる。ランダム  
アクセス・メモリ (RAM) 318、入力アダプタ3

【0027】動作中に、CPU310は、後で詳細に説明する本発明の1実施例による電子メール・メッセージ

(8) 特開平11-232192

【0031】本発明では、比較、検証、照会または、人間と動作を行うことのできる他の動作を記述する間に動作を行うことにより、本発明の一部を形成することに留意されたい。しかし、本発明の一部を形成する、本明細書に記載の動作のうちの少なくともいくつかは、人間の動作による動作がでないことが望ましい。本発明は、本明細書に記載の動作は、大部分が、他の電気信号を生成する動作に電気信号を処理する機械動作である。

【0032】本発明の動作を、これから詳しく説明する。図3を参照すると、電子メール・メッセージの受信、格納及びアーカイブのために本発明の1実施例で示されるステップのそれぞれは、図3のデータ及び処理システム300の構成要素のうち1つの別個の下部で実行される。300の構成要素のうち1つの別個の下部で実行される。

【0033】電子メール、メッセージの取出し、格納及びアーカイブのための方法は、CPU3100の制御の下で、ステップ402で開始される。その後、ステップ04で、通信アダプタ334を通して、インターネット上の特定場所からメッセージを取り出す。インターネット上の特定場所からメッセージを取り出すことと、図3では包括的に「ネットワーク」と記されていることに留意されたい。

【0034】ステップ406で、CPU310は、メッセージ・ヘッダまたはメッセージの内容を格納することにより、取り出したメッセージがHTMLフォーマットであるかどうかを判定する。CPU310は、バージョン3.05で利用して着信メッセージを差し、そのメッセージがHTML文書であるかどうかを判定する処理を実行する。ステップ408の処理技法を実行するために、CPU310は、よって格納されるトランザクション・プログラム354が、メールのヘッダまたはメールのデータ内容のメッセージを調べ、メールの形式を判定する。従来のインターネット電子メールでは、あるフォーマットが使用され、本発明では、そのフォーマットを格納して、HTMLフォーマットでのメッセージの存在または不存在を判定することに留意された。メッセージがHTMLフォーマットでない場合には、CPU310が、ステップ408そのメッセージのヘッダまたはデータ内容に実施する。このよう

【0035】 Netscape Mail（同前）などのアプリケーションを用いて、ユーザは、HTML フォーマットに電子メール・メッセージを送信できるようにするために、アドレスを登録し、Netscape Messenger では、インターネット及びインターネットを介して電子メール・メッセージを送達するためのアプリケーションが実装されている。このアプリケーションでは、Network Computer（同前）に統合されて、ユーザが、グラフィックス、音声及びJava アプレットを用いたウェブ・ページとして振舞う電子メール・メッセージを作成できるようになっている。Net-scape Computer にインストール可能なような装置によって、Me-



特開平11-232192

(12)

(表3)

Appendix A - Talking to Lawyers  
Glossary  
Index

## Chapter 1 - Getting Started

How to start at the beginning

## Chapter 2 - Getting Going

Follow the yellow-brick road

## Chapter 3 - Keep Going

Repeat: Follow the yellow-brick road

## Chapter 4 - Don't Stop Now

Follow, follow, follow, follow the yellow-brick road

## Chapter 5 - Almost Finished

We're off to see the wizard, the wonderful wizard of OZ

## Chapter 6 - Finishing Up

Put up your feet, grab a coffee, and curl up with a good book

## Appendix A - Talking to Lawyers

It ain't so bad. There are a few things to keep in mind though:

1. Get to the point. Temples light
2. Avoid promises you can't keep
3. Don't forget the Eoy, at the end of the name when addressing correspondence
4. And by all means remember: *lawyer files are in poor form.*  
They will probably get you off to a bad start and cost you your chance at the patent office.

Index

Apple  
Application  
Bureau  
Book  
Chicken  
Lizard  
Wizard

【0054】このメッセージは、HTML文書と関係する。  
れる（付録A参照）。以下の例では、HTML文書と電  
子メールの相違点に下線を付す。HTML文書は次の形  
になる。  
【表4】

特開平11-232192

(11)

To: Osh  
From: Robert  
Subject: Wizard Paper on Patents

Hi,

Here's the draft of the book on patents.

Hope you enjoy it. :-)

Robert

\*\*\*\*\*

## Writing a Patent Application

Abstract:

Writing a patent application can be a time-consuming, but rewarding activity. Deconstructing the task into manageable pieces to manage the work

## Table of Contents

Abstract

Table of Contents

Chapter 1 - Getting Started

Chapter 2 - Getting Going

Chapter 3 - Keep Going

Chapter 4 - Don't Stop Now

Chapter 5 - Almost Finished

Chapter 6 - Finishing Up

(表2)

(13) 特開平11-232192

```

<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>WhirlPaper on Petcare</TITLE>
<META>
<BODY>
<ADDRESS>
  To: <A HREF="mailto:petcare@msn.com">petcare@msn.com</A><BR>
  From: <A HREF="mailto:petcare@msn.com">petcare@msn.com</A><BR>
  Subject: WhirlPaper on Petcare<BR>
</ADDRESS>
</BODY>
</HTML>

```

Here's the draft of the book on petcare.

Hope you enjoy it. :-)

Robert

\*\*\*\*\*

#### Writing a Petcare Application

##### Abstract:

Writing a petcare application can be a time-consuming, but rewarding activity. Incorporating the table into subtasks can be a valuable tool to manage the work.

##### Table of Contents

(0055) テキストは、末尾まで同一であり、末尾に次のHTMLコードが挿入される。  
 [表5]  
 <TABLE>  
 <TR>  
 <TD>  
 </TD>  
 </TR>  
 </TABLE>  
 [0056] その後、サーバは、このメッセージのために次のURLを生成する。  
 http://www.mailserver.bethiscompany.com/mailboxes/01b/mg0001  
 [0057] このURLは、後のステップで使用するために、本発明のデータ処理システムのメイン・メモリに保存される。その後、このメッセージが外部ユーザに表示されたと仮定する。ユーザが、このメッセージにサブスクリプションを追加するための自動通知を呼び出すと決定した場合、ユーザは、本発明の1実施形態では、オプション・メニューから「自動インデックス」機能を選択する。ユーザのシステムは、このメッセージを宛先、インターネット作成のために送信可能な宛先を探索。以下の宛先を有するインデックスを作成された文書がもたらされる。自動インデックスと宛先の相違点を下線を付けて、2つの文書の相違点を強調する。  
 [表6]

(14)

特開平11-232192

```

<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.1.2 Final//EN">
<HTML>
<HEAD>
<TITLE>WhirlPaper on Petcare</TITLE>
<META>
<BODY>
<ADDRESS>
  To: <A HREF="mailto:petcare@msn.com">petcare@msn.com</A><BR>
  From: <A HREF="mailto:petcare@msn.com">petcare@msn.com</A><BR>
  Subject: WhirlPaper on Petcare<BR>
</ADDRESS>
</BODY>
</HTML>

```

Here's the draft of the book on petcare.

Hope you enjoy it. :-)

Robert

\*\*\*\*\*

#### Writing a Petcare Application

##### Abstract:

Writing a petcare application can be a time-consuming, but rewarding activity. Incorporating the table into subtasks can be a valuable tool to manage the work.

##### Table of Contents

[表7]

特開平11-232192

(15)

Abstract  
Table of Contents  
Chapter 1 - Getting Started  
Chapter 2 - Getting Going  
Chapter 3 - Keep Going  
Chapter 4 - Don't Stop Now  
Chapter 5 - Almost Finished  
Chapter 6 - Finishing Up  
Appendix A - Working with a Patent Attorney  
Glossary  
Index

Chapter 1 - Getting Started<name>Chapter 1 - Getting Started</name>

Next to start at the beginning.

Chapter 2 - Getting things started<name>Chapter 2 - Getting Going</name>

Follow the yellow-brick road.

Chapter 3 - Keep Going<name>Chapter 3 - Keep Going</name>

Repeat: Follow the yellow-brick road.

Chapter 4 - Don't Stop Now<name>Chapter 4 - Don't Stop Now</name>

Follow, follow, follow, follow, follow the yellow-brick road!

Chapter 5 - Almost Finished<name>Chapter 5 - Almost Finished</name>

We're off to see the wizard, the wonderful wizard of 11/.

[表8]

(16)

特開平11-232192

Chapter 6 - Finishing Up<name>Chapter 6 - Finishing Up</name>

Put up your feet, grab a coffee, and curl up with a good book.

Appendix A - Working with a Patent Attorney<name>Appendix A - Working with a Patent Attorney</name>

It's not too hard. There are a few things to keep in mind though:

- 1.) Get to the point. Tempus fugit
- 2.) Avoid promises you can't keep
- 3.) Don't forget the EUI, at the end of the name when addressing correspondence
- 4.) And by all means remember: Lawyers joke me in poor form. They will probably get you off to a bad start and may win your clients at the patent office.

Glossary<name>Glossary</name>

Apple

Banana

Chicken

Cow

Dog

[表9]

Index<name>Index</name>

Apple

Application

Banana

Book

Chicken

Lizard

Wizard

<PRE>

<BODY>

<HTML>

[0058] この時点で、ユーザのシステムは、メッセージを花差し、草、付録などを含む適切な項目を識別

し、「タグ」を付けている。次に、ユーザが、独自のサブセクションをマークしたいと考えたと仮定する。ユーザは、マウスを用いてメッセージ・テキストの一部を選択し、「クリック」する。ユーザが付録Aの項目4を選択し、次の回答を供給したと仮定すると、ユーザのシステムは、次のタイアログを用いて応答する。

Subscription name: Patent Joke  
Categories: Job-Lawyers  
Job-Patents

[0059] HTMLメッセージ (HTML) の対応部分は、下記の形式を有するように変更される。図のコードと下のコードの相違点に下線を付けてあることに留意されたい。

[表10]



特圖平 11-232192

**It's not so hard. There are a few things to keep in mind though:**

- 1) (44) in the point. Tempus fugit
- 2) Avoid promises you can't keep
- 3) I won't forget the day, at the end of the storm when addressing correspondents

- d) And by all means remember: lowest jobs are in poor form. They will probably get you off to a bad start and may ruin your chances at the patent office. *Patent Jobs* ~~are~~

`Gltwvayca name="Gltwvay"></code>`

| Apple | Banana | Chicken | Cow | Dog |
|-------|--------|---------|-----|-----|
|-------|--------|---------|-----|-----|

«Содержание»

Apple  
AppleCare  
Humana  
Bank

3. サブページのURLし、「index.html」のスト  
ア。次、次の形式のURL  
http://www.mailserver.beltscapany.com/mailboxes/b  
eltscap001.html/#Parent\_Job

によって示される記憶空間にあるファイル名「index.ht  
ml」に格納する。

5. 次の形式のURL  
http://www.mailserver.beltscapany.com/mailboxes/b  
eltscap001.html/#Parent\_Job

によって示される記憶空間にあるファイル名「index.ht  
ml」に格納する。

6. システムは、ユーザの要求を待つ。  
[0061]この時点で、インデックスは、下の形で指  
定されている。  
<http://www.mailserver.beltscapan>

サーバ(0060)領域に、ユーザがこのメッセージを保管する。ユーザは、このメッセージに実行する操作を決定し、それを決定したと仮定する。そのようなメッセージは、ユーザのオペレーティング・システムによって実行される。ユーザは、ユーザが、オペレーティング・システムによって実行されるメニューから「保存」機能を選択する。すると、ユーザのシステムは、以下のステップを実行する。

1. ユーザは、下記のURLによって提供される記事のURLを、メッセージは、下記のURLによって提供される記事のURLに置き換える。「msg001.html」として保管される。http://www.aolserver.bethcompsay.com/aol/bbox/msg001.html/
2. URL「http://www.aolserver.bethcompsay.com/aol/bbox/msg001.html」を、ステップ1と同一の送信空間になるファイル名「index.html」に追加する。

(18)

特開平11-232192

```

<code>mailboxes/web/index.html
</code>
<HTML>
<HEAD>
<TITLE>Send Mail</TITLE>
</TITLE>
<HEAD>
<BODY>
<H1>Index of Send Mail</H1>
</H1>
</BODY>
</HTML>
</code>

<code>
<code> href="mg0001.html">My Application Statistics</code>
<code> href="mg0002.html">More Info</code>
<code> href="mg0001.html">Welcome to PHPinfo</code>
</code>

<code>
<code> href="mg0001.html">Notice</code>
<code> href="mg0001.html">Table of Contents</code>
<code> href="mg0001.html">Chapter 1 - Getting Started</code>
</code>

Getting Started</code>

<code> href="mg0001.html">Chapter 2 - Getting Going</code>
</code>

Getting Going</code>

<code> href="mg0001.html">Chapter 3 - Keep Going</code>
</code>

Going</code>

<code> href="mg0001.html">Chapter 4 - Don't Stop Now</code>
</code>

Don't Stop Now</code>

<code> href="mg0001.html">Chapter 5 - Almost Finished</code>
</code>

Almost Finished</code>

<code> href="mg0001.html">Chapter 6 - Finishing Up</code>
</code>

Finishing Up</code>

<code> href="mg0001.html">Appendix A</code>
</code>

Appendix A</code>

<code> href="mg0001.html">Index</code>
</code>

Index</code>

</code>
</code>
</code>
</code>

```

【0062】このコードが実行される時には、下記のフォーマットでインデックスが表示装置に表示される。

【表13】

- **Patient Application Status**
- **Main Info**
- **WhitePaper on Patients**
- **Abstract**
- **Table of Contents**
- **Chapter 1 – Getting Started**
- **Chapter 2 – Getting Going**
- **Chapter 3 – Keep Going**
- **Chapter 4 – Don't Stop Now**
- **Chapter 5 – Almost Finished**
- **Chapter 6 – Finishing Up**
- **Appendix A**
- **Glossary**
- **Index**

(19) 特開平11-232192

【0063】ユーザが2つの追加メッセージを併置した される。  
 様には、下記のフォーマットでインデックスがワード化 【表14】

```

<DOC1YPT1:HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<HTML>
<HEAD>
<TITLE>Save Mail<TITLE>
<HEAD>
<BODY>
<!--Index of Saved Mail-->
<div>
<div> <a href="img0001.html">Patent Application Status</a>
<div> <a href="img0002.html">More Info</a>
<div> <a href="img0003.html">White Paper on Patents</a>
</div>
<div> <a href="img0001.html#Abstract">Abstract</a>
<div> <a href="img0001.html#Table of Contents">Table of Contents</a>
<div> <a href="img0001.html#Chapter 1">Chapter 1 - Getting Started</a>
<div> <a href="img0001.html#Chapter 2">Chapter 2 - Getting Going</a>
<div> <a href="img0001.html#Chapter 3">Chapter 3 - Keep Going</a>
<div> <a href="img0001.html#Chapter 4">Chapter 4 - Don't Stop Now</a>
<div> <a href="img0001.html#Chapter 5">Chapter 5 - Almost Finished</a>
<div> <a href="img0001.html#Chapter 6">Chapter 6 - Finishing Up</a>
<div> <a href="img0001.html#Appendix A">Appendix A</a>
<div> <a href="img0001.html#Glossary">Glossary</a>
<div> <a href="img0001.html#Index">Index</a>
</div>
<div>
<div> <a href="img0001.html">Patent Application Status</a>
<div> <a href="img0002.html">More Info</a>
<div> <a href="img0003.html">White Paper on Patents</a>
</div>
<div> <a href="img0001.html#Abstract">Abstract</a>
<div> <a href="img0001.html#Table of Contents">Table of Contents</a>
<div> <a href="img0001.html#Chapter 1">Chapter 1 - Getting Started</a>
<div> <a href="img0001.html#Chapter 2">Chapter 2 - Getting Going</a>
<div> <a href="img0001.html#Chapter 3">Chapter 3 - Keep Going</a>
<div> <a href="img0001.html#Chapter 4">Chapter 4 - Don't Stop Now</a>
<div> <a href="img0001.html#Chapter 5">Chapter 5 - Almost Finished</a>
<div> <a href="img0001.html#Chapter 6">Chapter 6 - Finishing Up</a>
<div> <a href="img0001.html#Appendix A">Appendix A</a>
<div> <a href="img0001.html#Glossary">Glossary</a>
<div> <a href="img0001.html#Index">Index</a>
</div>
</div>
</HTML>

```

【0064】このコードが実行される時には、下記のフ  
 ォーマットでインデックスがユーザの表示装置に顯示さ れる。 【表15】

(20) 特開平11-232192

Index of Saved Mail

- Patent Application Status From: Robert Iyasa Date: 11/01/97
- More Info From: Robert Iyasa Date: 11/02/97
- White Paper on Patents From: Robert Iyasa Date: 11/03/97

Abstract

Table of Contents

Chapter 1 - Getting Started

Chapter 2 - Getting Going

Chapter 3 - Keep Going

Chapter 4 - Don't Stop Now

Chapter 5 - Almost Finished

Chapter 6 - Finishing Up

Appendix A

Glossary

Index

- Patent Application Status
- More Info
- White Paper on Patents

【0065】インデックスを顯示する方法は、非常に差  
 異であり、強力であることに留意されたい。上に示した  
 例は、本発明を不願に不明瞭にしないためのものである  
 【表16】



(23) 特開平11-232192

形成される。たとえば、前に説明した時は、「Job」情報がいづつか保管されたが、その情報が保管されているファイルは、次のURLによって示される。

http://www.sailserver.bethelcompany.com/mailboxes/ [表19]  
 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2 Final/EN">

<HTML>

<HEAD>

<TITLE>Job</TITLE>

<HEAD>

<BODY>

<H1>Index of links</H1>

<sub>

<a href="mailto:Index.html">Index.html</a>

<a href="mailto:Index.html">Index.html</a>

</sub>

</BODY>

</HTML>

[0070] このコードでは、ユーザが「Lawyers」または「Patents」のいずれかをクリックして、そのアーカイブの内容を表示できることに留意されない。さら

に、ユーザがゲスト「Lawyers」をクリックすることによって、ユーザは、下記のURLによって示されるファイルにアクセスすることになる。

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2 Final/EN">

<HTML>

<HEAD>

<TITLE>Index of links</TITLE>

<HEAD>

<BODY>

<H1>Index of links</H1>

<sub>

<a href="mailto:Index.html">Index.html</a>

<a href="mailto:Index.html">Index.html</a>

</sub>

</BODY>

</HTML>

<sub>

</sub>

</BODY>

</HTML>

他の動作の例

例A

以下の図では、ユーザが電子メール・メッセージを受け取っていることを示す。前に説明したように、電子メール・メッセージには、英数字文字が含まれる。メッセージが、英数字文字として符号化されている場合、そのメッセージは、具体的に「DOCTYP」で置き換わる。最初の行と、それに続く、HTML要素及びHTML要素を含むHTML要素を置き換えることによって、図Aに示される。そのような電子メール・メッセージの例を下に示す。

[表21]

[0073] 付録A

(24)

特開平11-232192

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2 Final/EN">

<HTML>

<HEAD>

<TITLE>Sample HTML Document</TITLE>

... 他は head 要素

<BODY>

... 文書の body 部

<BODY>

<HTML>

[0074] さらに、メッセージがHTMLとして記述されていない場合、そのメッセージは、必要な主題フィールドを指定して、英数字文字をラップすることによって記述できる。たとえば、次の電子メール・メッセージが記述されたと仮定する。

To: Beth

From: Robert

Subject: Information

[表22]

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2 Final/EN">

<HTML>

<HEAD>

<HEAD>

<BODY>

Hi,

I have some more information for you.

Regards,

Robert

</BODY>

</HTML>

[表23]

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2 Final/EN">

<HTML>

<HEAD>

<HEAD>

<BODY>

Hi,

I have some more information for you.

Regards,

Robert

</BODY>

</HTML>

<PRE>

<BODY>

<HTML>

[0077] その後、元のメッセージの「TO」フィールドと「FROM」フィールドを使用して、アドレス・セクションを作成する。この作成を下に示す。

[表24]



(27)

11-232192

```
<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
</HTML>
<HEAD>
<TITLE>Here we the first</TITLE>
</HEAD>
<BODY>
<ADDRESS>
    I'm <A HREF="mailto:per@diginsane.com">John Appleby</A>-><B>
    From: <A HREF="mailto:youdig@ben.com">Robert Youe</A>-><B>
    Subj: Here are the files</B>
</ADDRESS>
<PRE>
file1
Here are the two files that I'll give you to review. The first one is a
line, the second is a gif.
Regards,
Robert
</PRE>
</BODY>
</HTML>
```

【喪28】

【0082】追加される。

```
<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">
<HTML>
<HEAD>
<TITLE>Here we the First</TITLE>
<META>
<ADDRESS>
<ABOUT>
<LINK SRC="image1.jpg" ALT="image1.gif">
</LINK>
<IMG SRC="image1.jpg" ALT="image1.gif">
</IMG>
</HEAD>
```

(10083) 本明細書に記載された説明は、本発明の実施形態の一例であつて、本発明を限定するものではない。さらに、多数の追加の実施形態を使用して、本発明を表現することでもよい。たとえば、メッセージ全体を HTML フォーマットに実装する必要はない。そうではなくて、本発明の代替者技術では、メッセージを ASCII あるいは LINE などの異なるフォーマットに実装するこ

とせである。さらに、図5に示されたインデックスは、簡単に図1に示されたものであり、本発明の範囲を制限する意図はなく、この用でインデックスを構成しなれどよい。

(28)

特開平11-232192

に、さまざまなインターネット・ウェア・ユーティリティを使用するプログラムのために、Netcape ( Netscape ( 南無 ) ) が出し出し、新機能である。プラグインは、主に、WWW ( 万網 ) プラグイン・オブジェクト、新しいインターネットのサポートを提供するために使用される。他のプラグインによって、ブラウザに強化機能が追加されてきたが、必須ではない。プラグインを使用することができ、必要ではない。たとえば、メッセンジャーにIMEタイプが追加される場合、プラグインを使用して、辞書機能にアクセスを許可することができ、さらに、本例を使用して、プラグインをインストールすることができ、特に、プラグインをインストールすることができ、

【0085】まゝとして、本発明の構成に關して以下  
の事項を附示する。

(1) 通信装置から複数の電子メール・メッセージを取り出すステップと、第1の複数の交換されるデータ値を生成するために、複数の電子メール・メッセージを第1フォーマットに変換するステップと、第1フォーマットに変換された第1の電子メール・メッセージの第1ビット列によって識別される第1位置に複数の電子メール・メッセージを格納するステップと、第1ビット列によって識別される第2位置に複数の電子メール・メッセージを格納するステップを含む、データ処理システム内でデータを生成するための方法。

(2) 第1植物子が、第1URLである、上記(1)に記載の方法。

(3) 第1フォーマットが、ハイパーテキスト・マークアップ言語フォーマットである。上記(1)に記載の方法。

(4) 第1格別子によって恒別される第1位図が、通信ネットワーク内のウェブ・ページに対応する、上記(1)に記載の方法。

(5) 通信ネットワークが、インターネットである、上記(4)に記述の方法。

(6) さらに、少なくとも1つの埋め込まれた強磁が、第1の複数の電子メール・メッセージに含まれる時を判定するステップを含む、上記(1)に記載の方法。

(7) 少なくとも1つの埋め込まれた関数が、埋め込まれたなり目しである。上記(6)に配慮の方法。

(8) 埋め込まれたURLが、通信ネットワーク内のウェブ・ページへのリンクである。上記(7)に記載の方法。

(9) 複数の電子メール・メッセージの群1部分のための第2識別子を生成するステップと、第2識別子によって識別される第2位置に複数の電子メール・メッセージの第1部分を格納するステップとをさらに含む、上記(1)に記載の方法。

(10) さらに、複取の電子メール・メッセージの第1特性を識別するステップを含む、上記(1)に記載の方法。

(11)さらに、第1特性によって決定されるフォーマ

ットで、複数の電子メール・メッセージを表示するソフトウェアを含む、上記(10)に記載の方法。

[illegible]

(13) 第1識別子が、第1URLである、上記(12)には載の通信ネットワーク。

(14) 第1フォーマットが、ハイパーテキスト・マークアップ言語フォーマットである、上記(12)に記載の通信ネットワーク。

(15) 記述位置が、通信ネットワーク内のウェブ・ページに対応する、上記(12)に記載の通信ネットワーク。

(16) 複数の電子文書を複数のグループに構成するステップと、複数のグループのそれぞれにURJを割り当てて、複数のグループとを含む、コンピュータ・ネットワーク内で電子文書を構成するための方法。

（17）対応するURLに促って、電子文書のそれぞれにサブセクションURLを割り当てます。ステップと、複数の電子文書のうちの第1の電子文書と第2の電子文書との間のハイパーリンクを作成するステップとをさらに含む、上記（16）に記述の方法。

(18) 複弦の電子文書のうち第1の電子文書と第2の電子文書とが、複弦のグループのうちの第1のグループに組成される、上記(17)に記載の方法。

(19) 複数の電子文書のうちの第1の電子文書が、複数のグループのうち第1のグループに含まれ、複数の電子文書のうちの第2の電子文書が、複数のグループのうち第2のグループに含まれる、上記(17)に記載の方法。

く20) 第2のハイパーリンクが、外部URLに対応する、上記(17)に記載の方法。

(21) 電子文書がハイパーテキスト・フォーマットであるかどうかを判定するステップと、電子文書をハイパーテキスト・フォーマットに変換するステップとをさらに含む、上記(16)に記載の方法。

(22)さらに、選択された電子文書内のセクションのためのURLを作成するステップを含む、上記(21)に記載の方法。

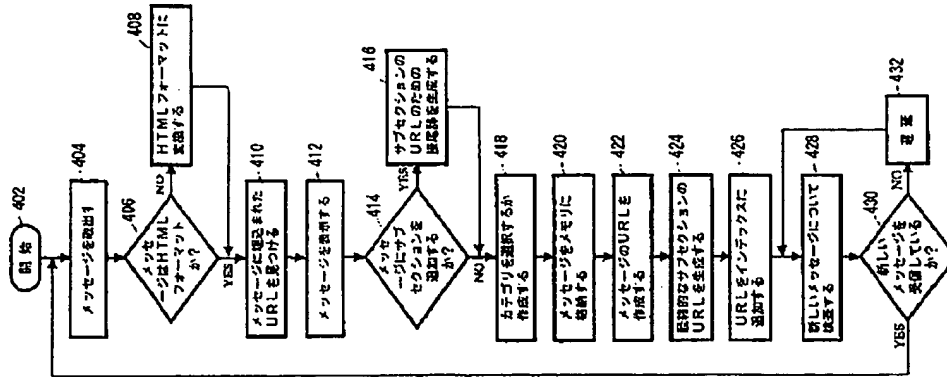
(23) 複数のグループのうちの少なくとも1つが、複数の電子メール文書のうちの1つ以外の電子文書を含む。上記(16)に記載の方法。



特開平11-232192

(32)

【図4】

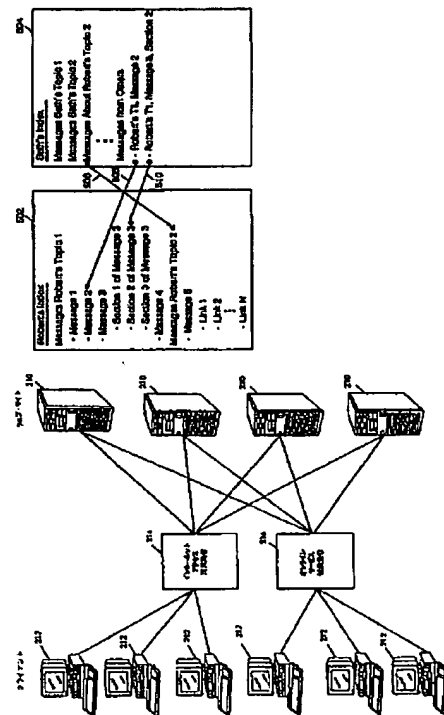


特開平11-232192

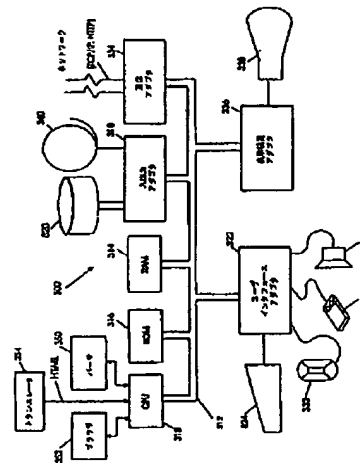
(31)

【図5】

【図2】



【図3】





Searching PAJ

1/2 ページ

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-232192  
(43)Date of publication of application : 27.08.1999

(51)Int.Cl.  
G06F 13/00  
H04L 12/54  
H04L 12/58

(21)Application number : 10-296545 (71)Applicant : INTERNATL BUSINESS MACH  
CORP <IBM>  
(22)Date of filing : 19.10.1998 (72)Inventor : TYCAST ROBERT LEONARD

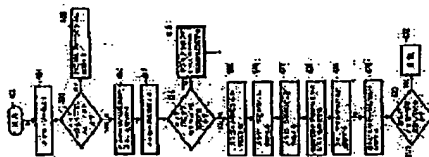
(30)Priority  
Priority number : 97 974573 Priority date : 19.11.1997 Priority country : US

(54) DATA PROCESSING SYSTEM AND METHOD FOR ARCHIVING AND ACCESSING  
ELECTRONIC MESSAGE

(57)Abstract:

PROBLEM TO BE SOLVED: To make a user able to use HTML and compile a received document to a category selected by user itself by taking out plural electronic messages and selectively converting them into a first format.

SOLUTION: After a message is received in an HTML format or converted into the HTML format, a CPU analyzes the received message and finds a buried URL (S410). After the analysis, data signals and control signals for displaying the message are supplied (S412). A sub section is selectively added to the displayed message and a suffix to be used later is generated for the respective sub sections (S414 and 416). The user selects or prepares the category for storing the received message (S418) and stores the message in a memory (S420). A web site accessed by the user generates the URL corresponding to the message and completes the URL of the sub section (S422 and 424).



## LEGAL STATUS

[Date of request for examination] 27.07.1999  
[Date of sending the examiner's decision of rejection] 18.01.2001

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application] 3437929  
[Patent number]

<http://www.19.ipdl.ncipi.go.jp/PA1/result/detail/main/wAAAqaa4WeDA411232192P1...> 17/09/09

Searching PAJ

2/2 ページ

[Date of registration] 08.08.2003  
[Number of appeal against examiner's decision of rejection] 2001-04408  
[Date of requesting appeal against examiner's decision of rejection] 22.03.2001  
[Date of extinction of right]

Copyright (C): 1998,2003 Japan Patent Office

<http://www.19.ipdl.ncipi.go.jp/PA1/result/detail/main/wAAAqaa4WeDA411232192P1...> 17/09/09

JP,11-232192A [CLAIMS] 2/3 ページ

Markup-Language format.

[Claim 15] The communication network according to claim 12 corresponding to the web page in a communication network in the storage location.

[Claim 16] The approach containing the step of which two or more electronic filing documents are composed in two or more groups, and the step which assigns each of two or more groups to a computer network.

[Claim 17] The approach according to claim 16 of containing further the step which assigns each of an electronic filing document Subsection URL, and the step which creates the hyperlink between the 1st electronic filing document of two or more electronic filing documents, and the 2nd electronic filing document according to corresponding URL.

[Claim 18] The approach according to claim 17 by which the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document are composed by the 1st group of two or more groups.

[Claim 19] The approach according to claim 17 by which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

[Claim 20] The approach according to claim 17 corresponding to Exterior URL in the 2nd hyperlink.

[Claim 21] The approach according to claim 16 of containing further the step which judges whether an electronic filing document is a hypertext format, and the step which changes an electronic filing document into a hypertext format.

[Claim 22] Furthermore, the approach containing the step which creates URL for the section in the selected electronic filing document according to claim 21.

[Claim 23] The approach according to claim 16 at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

[Claim 24] The approach according to claim 16 of containing further the step which copies the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the step which changes URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

[Claim 25] Furthermore, the approach containing the step which stores two or more electronic filing documents in the storage location relevant to URL according to claim 16.

[Claim 26] Furthermore, the approach containing the step which requires access to two or more electronic filing documents in the storage location relevant to URL according to claim 16.

[Claim 27] Furthermore, the approach containing the step which creates an accessible web page through URL according to claim 16.

[Claim 28] Furthermore, the approach according to claim 27 corresponding to URL of two or more links assigned to each of two or more groups, respectively including the step which creates two or more links on a web page.

[Claim 29] Furthermore, the approach according to claim 16 of containing the step to which an external user enables it to access at least the part of two or more electronic filing documents, when an external user inputs URL into a computer network.

[Claim 30] Furthermore, the approach containing the step which an external user does by the ability not accessing at least the part of two or more electronic filing documents when an external user inputs URL according to claim 16.

[Claim 31] The approach according to claim 16 URL is a link to the web page in a computer network.

[Claim 32] The category creation means for creating two or more categories by which URL is assigned to each, in order to carry out grouping of two or more electronic mail documents. The user dialogue means for assigning one alternatively of two or more categories is included by the electronic mail box for receiving two or more electronic mail documents and two or more electronic mail documents being alike, respectively. The electronic mail system which can assign URL corresponding to one URL in two or more categories of the electronic mail document to

[http://www4.ipdl.ncipi.go.jp/cgi-bin/ran\\_web.cgi?e=http%3A%2F%2Fwww4.ipdl.nci...](http://www4.ipdl.ncipi.go.jp/cgi-bin/ran_web.cgi?e=http%3A%2F%2Fwww4.ipdl.nci...) 17/09/09

JP,11-232192A [CLAIMS] 1/3 ページ

## \* NOTICES \*

JPO and WIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## CLAIMS

[Claim 1] In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed. The step which changes two or more electronic mail messages into the 1st format alternatively. The approach containing the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier for two or more electronic mail messages, and the store identified by the 1st identifier for composing data within data processing system.

[Claim 2] The approach according to claim 1 the 1st identifier is the 1st URL.

[Claim 3] The approach according to claim 1 the 1st format is a HyperText-Markup-Language format.

[Claim 4] The approach according to claim 1 corresponding to the web page in a communication network in the 1st location identified by the 1st identifier.

[Claim 5] The approach according to claim 4 a communication network is the Internet.

[Claim 6] Furthermore, the approach according to claim 1 at least one embedded indicator contains the step which judges the time of being contained in two or more 1st electronic mail messages.

[Claim 7] The approach according to claim 6 at least one embedded indicator is embedded URL.

[Claim 8] The approach according to claim 7 embedded URL is a link to the web page in a communication network.

[Claim 9] The approach according to claim 1 of containing further the step which generates the 2nd identifier of the sake for two or more electronic mail messages part 1, and the step which stores a part for part 1 of two or more electronic mail messages in the 2nd location identified by the 2nd identifier.

[Claim 10] Furthermore, the approach containing the step which identifies the 1st property of two or more electronic mail messages according to claim 1.

[Claim 11] Furthermore, the approach according to claim 10 of containing the step which displays two or more electronic mail messages in the format for which it opts with the 1st property.

[Claim 12] In order to generate the equipment for accessing two or more electronic mail messages, and the data value from which the 1st plurality was changed and to change two or more electronic mail messages into the 1st format. The conversion means combined with the equipment for [above-mentioned] carrying out access, and the discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed. The communication network including a store circuit which is combined with a conversion means in order to receive the data value from which the 1st plurality was changed, is combined with a discrimination decision circuit in order to receive an identifier, and stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.

[Claim 13] The communication network according to claim 12 whose 1st identifier is the 1st URL.

[Claim 14] The communication network according to claim 12 whose 1st format is a HyperText-

[http://www4.ipdl.ncipi.go.jp/cgi-bin/ran\\_web.cgi?e=http%3A%2F%2Fwww4.ipdl.nci...](http://www4.ipdl.ncipi.go.jp/cgi-bin/ran_web.cgi?e=http%3A%2F%2Fwww4.ipdl.nci...) 17/09/09

JP.11-232192A [CLAIMS]

3/3 ページ

which plurality was assigned, respectively.

[Claim 33] Furthermore, the electronic mail system containing the translator for changing alternatively each of two or more electronic mail documents into a hypertext format according to claim 32.

[Claim 34] The computer program product including the means for composing two or more electronic filing documents in two or more groups, and the means for assigning each of two or more groups URL in a computer-readable medium for composing an electronic filing document within a computer network.

[Claim 35] The computer program product according to claim 34 which includes further the means for creating the hyperlink between the means for assigning each of an electronic filing document Subsection URL, and the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document according to corresponding URL.

[Claim 38] The computer program product according to claim 34 with which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.

[Claim 37] The computer program product according to claim 34 corresponding to Exterior URL in the 2nd hyperlink.

[Claim 38] The computer program product according to claim 34 which includes further the means for detecting whether an electronic filing document is a hypertext format, and the means

for changing an electronic filing document into a hypertext format.

[Claim 39] Furthermore, a computer program product including a means to create URL for the section in the selected electronic filing document according to claim 34.

[Claim 40] The computer program product according to claim 34 with which at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.

[Claim 41] The computer program product according to claim 34 which includes further the means for copying the 1st electronic filing document of two or more electronic filing documents

to the 2nd group of the 1st group to two or more groups of two or more groups, and the means for changing URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.

[Claim 42] Furthermore, a computer program product including the means for storing two or more electronic filing documents in the storage location relevant to URL according to claim 34.

[Claim 43] Furthermore, a computer program product including the means for requiring access to two or more electronic filing documents in the storage location relevant to URL according to claim 34.

[Claim 44] Furthermore, a computer program product including the means for creating the web page which can be accessed through URL according to claim 34.

[Claim 45] Furthermore, the computer program product according to claim 44 corresponding to URL of two or more links assigned to each of two or more groups, respectively including the means for creating two or more links on a web page.

[Claim 46] Furthermore, the computer program product according to claim 34 which includes a means for an external user to enable it to access at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.

[Claim 47] Furthermore, the computer program product according to claim 34 which includes a means for an external user to prevent from accessing at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.

[Claim 48] The computer program product according to claim 34 whose URL is a link to the web page in a computer network.

[Translation done.]

[http://www4.ipdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejje?u=http%3A%2F%2Fwww4.ipdl.ncipi...](http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web.cgi_ejje?u=http%3A%2F%2Fwww4.ipdl.ncipi...) 17/09/09

JP.11-232192.A [DETAILED DESCRIPTION]

1/29 ページ

## \* NOTICES \*

JPO and NCIP are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001] [Field of the Invention] Generally, this invention accesses an electronic message, specifically accesses an electronic message about the data processing system and the data-processing approach for composing this, and relates to the data processing system and the data-processing approach for composing of HyperText Markup Language.

[0002] [Description of the Prior Art] The network of the computer of the worldwide scale generally known as the "Internet" has grown explosively in the past several years. This growth was promoted by the installation and spread of "web" browsers which can usually access a Network Server based on a simple graphical user interface. Such a Network Server usually supports the document formatted as a "web page." "World Wide Web" (WWW) is the set of the server using a HyperText Transfer Protocol (HTTP) on the Internet. HTTP is a known application protocol for providing a user with access to the file which uses the standard Page Description Language called HyperText Markup Language (HTML). These files should care about that it can provide in different formats, such as a text, graphics, an image, voice, and video. Fundamental document formatting is offered by HTML and a developer can specify now the "link" to other servers and files by in case a HTML conformity client browser is used, assignment of the link through a uniform resource locator (URL) is performed. When URL is specified, a client can perform a TCP/IP demand to the server identified by the link, and can receive a "web page" as the responses. This "web page" is the document formatted according to HTML.

[0003] Current and the Internet are mainly used by the individual who desires access to information and service. Electronic mail messaging service is in the services which the Internet offers. If this is used, a user can communicate mutually in an easy and timely form regardless of a physical location.

[0004] Drawing 1 is drawing showing the standard electronic mail system configuration carried out in the communication network. Working [such a standard electronic mail configuration], the message enclosure 102 receives arrival-of-the-mail mail, and puts on storage 104. E-mail user equipment 106 accesses the message often memorized by the store 104, and offers the interface to the user of an electronic mail system. When a user wants to transmit e-mail, a message is created using e-mail user equipment 108, and message transfer equipment 108 is passed. It judges whether the address of e-mail is specified correctly and message transfer equipment 108 is package-sized for the transfer of e-mail in a communication network. Action and architecture of usual electronic mail equipment are explained in the bottom.

[0005] With a classic electronic mail configuration, a message storing agent (MSA) collects arrival-of-the-mail mails, and puts on message enclosure, although it often comes out that it is another program. an e-mail user agent (MUA) reads the message stored in message enclosure, and shows and interfaces with an external user. When a user wishes transmission of e-mail, the message is created using MUA and passed to a message transfer agent (MTA). The address of e-mail is specified correctly and MTA checks being package-sized for the transfer on a communication network of e-mail. The mail transmitted to the equipment intermittently

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

2/29 ページ

connected to a network can be included in other electronic mail systems. In such a system, MUA is permuted by the mail server which serves the demand through the intermittent circuit from e-mail proxy equipment. When there is a demand from e-mail proxy equipment, the copy of mail in message enclosure is copied to the storage of the computer besides a network. Then, a mail server advances in a form similar to the upper explanation, and the message enclosure explained above and an MTA function are included in the element of a mail server. Dispatch mail can be formatted by the computer side besides a network for delivery, and can be delivered to a mail server through an e-mail proxy for the delivery to a communication network. The transaction between the mail servers on the calculating machine besides a network and the calculating machine which is always on a network is generated whenever connection is active.

[0006]

[Problem(s) to be Solved by the Invention] Although such a conventional electronic mail messaging system operates appropriately about almost all applications, such a conventional electronic mail system has some limits. Speaking concretely, electronic mail systems, such as whose was described in the top, lacking in flexibility, and being unable to attach an index (index) to a message in the form which a user can use conveniently or easily, or being unable to carry out cross-reference of the message. Furthermore, when a new communication network and new application are developed, a user cannot correct the protocol in an electronic mail messaging system, in order to usually communicate with new application. It is because such a conventional electronic mail system is mounted using the original format whose correction cannot access by the user but is also impossible. Furthermore, with such a conventional electronic mail system, a message cannot be shared in an easy form, either. On the contrary, a user has to perform arrangements for having to perform another treatment or sharing the others and information through exchange of a password etc., in order to transmit a message to a third person.

Therefore, although the functionality of the Internet and mixing of the conventional electronic mail messaging system exist, the conventional electronic mail messaging system is not followed at the technical progress stimulated by progress of WWW. Therefore, the need for an electronic mail messaging system of giving big flexibility by the user at the time of storing of an electronic mail message, reception, and an archive exists. Furthermore, the need for the messaging system which answers the technique looked at by WWW of changing exists.

[0007] Furthermore, such a conventional electronic mail messaging system cannot provide a user with flexibility when composing the e-mail message and other HTML documents which the user received through the communication network. Such a conventional electronic mail messaging system can offer the approach of sorting a message based on the urgency of a message, or the time of message reception. However, a user may think that he wants to compose an e-mail message according to the original need or the original purpose of use. Lotus Notes (trademark) is the example of an electronic mail messaging system. A user can store a received message by specifying one or more categories applied to a received message. A message should care about arriving without being divided into a category. When it chooses that a user stores a message, an electronic mail system gives an opportunity to determine the category relevant to the message as a user, the category of existing which may already exist if it becomes which a user desires --- in addition --- or a new category can be created instead of it and it can also relate with a message.

[0008] Although the system of this category is very useful to retrieval of an electronic mail database, the above-mentioned limit is received. Speaking concretely, a user's being unable to attach an index to the part or subsection of a message. In Lotus Notes, the most detailed level of the detail permitted is the whole message. This may become a limit very severe for many users. Furthermore, in Lotus Notes, a general-purpose tool cannot be used to the archived message. Since it is stored in an original format, if a message is not the tool which knows the format clearly, it cannot be accessed. Furthermore, in Lotus Notes, a user cannot share a part of archive or archive easily. On the contrary, although a user can share a message by creating the common database on a common server in a troublesome process, it is necessary for all the members of the users who share the archive to install the same software for that purpose.

[0009] Therefore, the need for the data processing system and the data-processing approach of

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

JP.11-232192A [DETAILED DESCRIPTION] 4/29 ページ

tool which a web user can use without modification of an archive format in this invention can be used by this accessibility, this accessibility is very useful.

[0016] Furthermore, this invention should care about enforcing the data processing system and the methodology for composing to the storage space which can give the description system and follows a request of an external user in an electronic mail message and other HTML documents. Such a storage space offers the approach of recognizing easily for the convenience for storing an HTML document in the Internet or another communication network. In the one example of this invention, such a storage space can be carried out as a folder. Therefore, if this invention is used, the archive of an electronic mail message can be shared among users in the form which archives can be shared through the step simply carried out like perusal of a website. As stated above, any web browsers can be used. Furthermore, since the browser for almost all operating system platforms is available, the user who shares an archive does not need to install the same software platform. Moreover, common use can be performed on the level of the precision for which a user asks. For example, a user can have an access privilege to a part of 1 set of message in the whole archive and an archive, single message, or single message.

[0017] During the data processing system of this invention, and operation of methodology, URL corresponding to each part of an electronic mail is assigned. In the one example of this invention, URL of the subsection of an e-mail message or an e-mail message is generable according to the category containing the message. Furthermore, in the one example of this invention, each of the category for storing URL embedded in the subsection of each part of e-mail, the e-mail message itself, and an e-mail message and an e-mail message can be mutually linked using a hyperlink technique, and a useful and flexible index creation function and a cross-reference function can be generated. Furthermore, it enables him for a user to mount all the functions of network browsers, such as Mosaic and Netscape Navigator, to access an electronic mail message, and to use by composing an electronic message as a web page. Operation and use of this invention are later explained to a detail.

[0018] Before giving detailed explanation of this invention, the outline of the environment where this invention operates is explained briefly. Furthermore, by the following explanation, in order to bring about a perfect understanding of this invention, many concrete details are shown. However, probably, it will be clear to this contractor that this invention can be carried out without such a concrete detail. By the case of being other, it was detailed, and in order [being unnecessary] not to make this invention not clear, the well-known circuit was shown by the block graphic form formula. The detail about examination of timing etc. was unnecessary although a perfect understanding of this invention is acquired, and since it was contained in the technique of those who have the usual technique in a related technique, it was omitted as much as possible.

[0019] Although a drawing will be referred to from now on, the element of illustration not necessarily shows but [not as full size] the same or similar element with the same sign through two or more drawings.

[0020] Drawing 2 is drawing showing the communication network based on the client-server model usually used by the Internet. Explanation of the following drawing 2 is offered in order to show the Internet environment used by this invention.

[0021] The large-scale network of accessible "server" 210 is included in the Internet by "client" 212 on a concept. Each of two or more clients 212 is usually the user of a personal computer. A client 212 accesses the Internet through the Internet access offer contractors 214 (Internet America (trademark) etc.) and the online service provision contractors 216 (America On-Line (trademark), AT & T WorldNet (trademark), etc.). Each of a client 212 can perform the "browser" which is the known software tool used for accessing a server 210 through the Internet access offer contractor 214 and the online service provision contractor 216. Each server 210 manages alternatively the "website" which supports the file of the forms of a document and a page. The known functor for defining network connection.

[0022] As stated above, World Wide Web is the set of the server on the Internet which uses a HyperText Transfer Protocol (HTTP). HTTP is a known application protocol which uses a known

[http://www4.ipd.ncipi.go.jp/cgi-bin/uran\\_web.cgi.ejje](http://www4.ipd.ncipi.go.jp/cgi-bin/uran_web.cgi.ejje) 17/09/09

JP.11-232192A [DETAILED DESCRIPTION] 3/29 ページ

enabling it to compose the document which the user used HTML and received in the category chosen by itself exists.

[0010] [Means for Solving the Problem] The need described above is satisfied by this invention.

Therefore, with the 1st gestalt, the method of composing data within data processing system is offered. In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed, the step which changes two or more electronic mail messages into the 1st format alternatively is contained in this approach. Moreover, the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier of two or more electronic mail messages, and the store identified by the 1st identifier is contained in this approach.

[0011] Furthermore, a communication network is offered with the 2nd gestalt. In this communication network, in order to generate the equipment for accessing two or more electronic mail messages, and the data value from which the 1st plurality was changed, the inverter for changing two or more electronic mail messages into the 1st format is contained. An inverter is combined with the equipment for accessing. In this communication network, the discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed is also included. In order to receive the data value from which the 1st plurality was changed, it connects with an inverter, and a store circuit is connected to a discrimination decision circuit in order to receive an identifier. A store circuit stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.

[0012] Furthermore, with the 3rd gestalt, the method of composing an electronic filing document within a computer network is offered. The step of which two or more electronic filing documents are composed in two or more groups, and the step which two or more groups are alike, respectively, receives, and defines URL are contained in this approach.

[0013] Furthermore, an electronic mail system is offered with the 4th gestalt. In order to carry out grouping of two or more electronic mail documents, the category listing device which creates two or more categories is contained in this electronic mail system. URL is assigned to each of two or more categories. The electronic mail box for receiving two or more electronic mail documents is also contained in this electronic mail system. The user dialogue equipment for assigning alternatively of two or more categories each of two or more electronic mail documents to one is also contained in this electronic mail system. URL corresponding to one URL in two or more categories is assigned to each of the electronic mail document to which plurality was assigned.

[0014] Furthermore, with the 5th gestalt, the computer program product in a computer-readable medium for composing an electronic filing document within a computer network is offered. The equipment for composing an electronic filing document in two or more groups and the equipment for assigning each of two or more groups URL are contained in this computer program product.

[0015] [Embodiment of the Invention] This invention enforces the data processing system and the methodology for the archive of the electronic mail message in communication system, such as the Internet, fetch, and storing. By changing an electronic message into an HTML document (web page), the data processing system and the methodology of this invention offer high flexibility by the user of communication system. By storing an electronic mail message as a web page, it can be made the group of the page of the "web" which uses the HTML format which explained each of an e-mail message above, or a page. Since you can embed other language or protocols in a web page format, please care about that it is not necessary to make the whole message a HTML format. For example, in the alternative example of this invention, a part of message is convertible for a pad MIME mold. Furthermore, since the data processing system and the methodology of this invention are based on a HTML standard in the one example, if this invention is used, they can be accessed from all the tools designed in order to use it for the archive of an electronic message to documents, such as a search engine, and World Wide Web. Since the technique and

[http://www4.ipd.ncipi.go.jp/cgi-bin/uran\\_web.cgi.ejje](http://www4.ipd.ncipi.go.jp/cgi-bin/uran_web.cgi.ejje) 17/09/09

JP.11-232192A [DETAILED DESCRIPTION]

6/29 ページ

browser 352 with right data with a parser 350, it depends for CPU310 on a certain protocol. Please care about that a protocol is the collection of regulations which defined how two stereotypes communicate in the form where it was strict and the format was followed. In this invention, TCP/IP for the packet distribution with the dependability which minds [ software ] a network, a browser 352 and HTTP for the communication link between web servers, and two or more protocols that have original properties, such as what is used by Lotus Notes (trademark), are contained.

[0029] The example as a computer system program for performing the approach explained on these specifications and the example as a computer program product are included in some examples of this invention. According to the computer system example, the instruction set for performing this approach resides in RAM314 of one or more computer system which has the configuration explained generally in the top permanently. This instruction set is storable as a computer program product in another computer memory until it is required by computer system. For example, it is storable in disk storage 320 (finally an optical disk, a floppy disk, etc. can be used within disk storage 320, and can be demounted, and possible memory can be included).

[0030] Furthermore, this computer program product is stored in another computer, when wanted, can call at a network or can be transmitted to a user's workstation by the computer-readable medium by external networks, such as the Internet. If it is this contractor, physical storage of an instruction set will understand changing physically the medium by which an instruction set is stored so that a medium may support computer-readable information. This change can be considered as other electric, magnetic, and chemical or physical change. Although it is convenient to explain this invention about an instruction, a notation, an alphabetic character, etc., a reader needs to care about that these and all the similar vocabulary relate to a suitable physical element.

[0031] Please care about describing other vocabulary which can be related with a comparison, verification, selection, or human being's operator in this invention. However, it is desirable for there to be no actuation of the actuation of a publication according [ some at least ] to human being's operator in this specification which forms a part of this invention. Actuation given in this specification is machine operation which processes an electrical signal, in order that most may generate other electrical signals.

[0032] Actuation of this invention is explained to a detail after this. Reference of drawing 4 shows the flow chart showing the methodology enforced in the one example of this invention for reception of an electronic mail message, storing, and an archive. Each of the step performed by drawing 4 is performed under one control in the component of the data processing system 300 of drawing 3.

[0033] The methodology for fetch of an electronic mail message, storing, and an archive is started at step 402 under control of CPU310. Then, a message is taken out from the source of supply on the Internet through a communication adapter 334 at step 404. The Internet should care about describing it as the "network" comprehensively in drawing 3.

[0034] At step 406, CPU310 judges whether the taken-out message is a HTML format by examining the contents of a message header or the message. CPU310 performs this judgment by scanning an arrival-of-the-mail message using a parser 350, and performing analysis actuation which judges whether that message is an HTML document. In order to enforce analytical technique of step 406, the translator program 354 performed by CPU310 investigates the marker of the header of e-mail, or the contents of data of e-mail, and judges the format of e-mail.

Please care about a certain field being used, and this invention analyzing the field, and detecting the existence of a message or the absence in a HTML format in the conventional Internet electronic mail. When a message is not a HTML format, CPU310 changes the message into a HTML format at step 408. The example of such conversion actuation is shown in Appendix A.

[0035] If applications, such as Netscape Mail (trademark), are used, a user needs to care about that an electronic mail message can be transmitted now in a HTML format. In Netscape Messenger, application for communicating an electronic mail message through intranet and the Internet is mounted. This application is unified by Network Composer (trademark) and can create now the electronic mail message which a user serves as a web page equipped with graphics, the

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejie](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi_ejie)

17/09/09

JP.11-232192A [DETAILED DESCRIPTION]

5/29 ページ

standard Page Description Language as HyperText Markup Language (HTML), and provides a user with access to a file. These files should care about that it can consider as a format which is [ video / a text, graphics, an image, voice, ] different. HTML offers fundamental document formatting and a developer can specify now the "link" to other servers or files by using HTML. Assignment of the link through URL is included in use of a HTML conformity browser. To such assignment, one of clients 212 can give a TCP/IP demand to one identified by the link among two or more servers 210, and it can receive a web page (document by which formatting was specifically carried out according to HTML) as the response.

[0023] Drawing 3 is drawing showing the data processing system 300 which can be used for mounting "client" 212 which perform the methodology of this invention. The central processing units (CPU) 310, such as a microprocessor, are contained in data processing system 300. CPU310 is combined with other various components through a system bus 312. A programmable read only memory (ROM) 316 is combined with a system bus 312, and the basic input/output system (BIOS) which controls a part of basic function of data processing system 300 is contained in ROM316. Random access memory (RAM) 314, an input / output adapter 318, and a communication adapter 334 are also combined with a system bus 312.

318 can be used as the SCSI (small computer system interface) adapter which communicates with disk storage 320. A communication adapter 334 interconnects a system bus 312 with an external network, and this data processing system enables it to communicate with other data processing system. An I/O device is also connected to a system bus 312 through the user interface adapter 322 and the indicating-equipment adapter 338. All a keyboard 324, trackballs 332, the mice 326, and loudspeakers 328 interconnect in a system bus 312 through the user interface adapter 322. The display monitor 338 is combined with a system bus 312 by the display device adapter 338. In this form, a user can input into a system through a keyboard 324, a trackball 332, or a mouse 326, and can receive an output from a system through a loudspeaker 328 and the display monitor 338.

[0024] CPU310 of data processing system 300 can be used, and the parser 350 who is a software function can be performed, and a parser can also carry out with another circuit apparatus. A parser needs to care about that a definition can be given as a subsystem of the software program which scans an input stream, or a program, in order to be used very frequently by computer programming and to usually identify an element required for the next phase of processing of a program.

[0025] One example of a parser is a run string processor. In order to give detailed explanation of a parser, an external user examines the case where it inputs as follows by the DOS prompt DIR D: \MYDATA\ P parser provides the next phase of the program under reception and activation, or the following subsystem with the following items for this input.

Command = "DIR"

Parameter = "D:\MYDATA"

Option = "P"

[0026] The program which mounts the "DIR" command can be called in the next phase. The remaining data (namely, a parameter and an option) are given by the parser, by this, that program scans the directory "MYDATA" of a drive "D:" in this program, and what (" /P" option) is halted whenever it displays the information for 1 page comes be made as for it to it. Furthermore, operating systems, such as AIX ("AUX" is the trademark of IBM Corporation), are used, and the function of various components shown in drawing 3 is adjusted.

[0027] Working, CPU310 also performs software relevant to a browser 352, in order to perform various functions including access and retrieval of an electronic mail message by one example of this invention explained to a detail later. As stated above, a browser is a general identifier given to the class of the computer program used for access of the document on World Wide Web. A browser 352 communicates with the program which manages a WWW document through the HTTP protocol called a HTTP server, a HTTP demon, or a web server in this invention. A browser receives the demanded document as a HTTP stream, extracts the HTML text contained in a HTTP stream, interprets a HTML protocol, and displays the result on a local display.

[0028] Furthermore, in case information is received through a network, in order to provide a

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejie](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi_ejie)

17/09/09

JP.11-232192A [DETAILED DESCRIPTION]

8/29 ページ

a user receives the message corresponding to a new topic, the user can choose creation of the category which uses the technique of the common knowledge which is not explained to a detail on these specifications. After newly creating the category which determines the category which places a message or places a message, a message is stored in memory at step 420. The memory can be used as the memory located on the remote server which considers as the local memory in data processing system 300, or is identified as memory corresponding to a user. Then, the website which the user has accessed in order to generate the web page corresponding to an electronic mail message generates URL corresponding to the message.

[0043] URL is generated according to the standard protocol explained in the bottom. The first message "MSG1" assumes that it was transmitted to the Internet server (the Internet access offer contractor 214 or online service provision contractor 216) called "MYSERV". The mail corresponding to a user is stored in the location called "MYMAIL" within the server. When MSG1 is transmitted to MYSERV through local connection or network connection, MYSERV puts the data of MSG1 on the storage location MYMAIL URL of a result generated by this server is as follows.

http://MYSERV/MYMAIL/MSG1 [0044] Next, URL of subsection is completed at step 424. In this case, the suffix before generated at step 416 is added to URL generated at step 422.

Therefore, in "subsection1", the final corresponding subsection URL is generated in the following form.

http://MYSERV/MYMAIL/MSG1 / #subsection1 [0045] Furthermore, when MSG1 has the 2nd subsection, the subsection URL corresponding to it becomes the following form.

http://MYSERV/MYMAIL/MSG1 / #subsection2 [0046] A server (MYSERV) generates URL of subsection automatically based on URL of the stored message (MSG1).

[0047] Next, URL is added to the index stored in the memory which can be accessed by CPU310, and it expresses to an external user as step 426. At step 428, CPU310 judges whether a new message was received. When a new message is received (step 430), the message is taken out and the flow of a program returns to step 404. However, when a new message is not received, the delay step 432 is performed and the flow of a program returns to step 428.

[0048] Drawing 5 is drawing showing the example of the index which is created by one example of this invention and displayed on a user's indicating equipment. The message is divided into two topics in Robert's index which is the 1st index 502. These topics are called as an ensemble -- "Messages Robert's Topic 1" (message Robert's topic 1), and "Messages Robert's Topic 2" (message Robert's topic 2). The indexing of the four messages is carried out to the 1st topic (Topic 1). Furthermore, Message 3 (message 3) should care about identifying three subsections in it. Generation of subsection was explained to the detail above.

[0049] Furthermore, please refer to the 2nd topic shown in the index 502. The indexing of Message 5 is carried out in this topic. Furthermore, Message 5 identifies the "N" link to other web pages or documents. These links are created and the external user of an index 502 can make it possible to search other available documents through a communication network by detecting URL embedded in the message.

[0050] Furthermore, please refer to the index 504 which is Beth's index (Beth's index). This is one example of this invention and is the 2nd index created for the 2nd external user. However, please care about that a single user can have two or more indexes according to need or hope of a user. In the Beth's index 504, some messages about "Robert's Topic 2" are stored. Refer to the URL corresponding to "Messages Robert's Topic 2" in an index 502 for this index.

Furthermore, refer to each section in the message under a specific topic for the Beth's index 504 with reference to each message (508) of the topics (510).

[0051] Access and retrieval of a message can be performed by explaining in a top, and a user's using each of the index shown in drawing 5 in a flexible form, and using the known Internet retrieval technique through use of a message, its subsection, and the index interface that is intuitive and displays a corresponding link simply in a user and a FRIENDLY form. Therefore, this invention offers the data processing system and the methodology are moderately satisfied with of all the need for a user and to which a user enables it to generate a complicated indexing method without the need of being bound to the protocol of specification (a user), by changing

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie

17/09/09

JP.11-232192A [DETAILED DESCRIPTION]

7/29 ページ

image, and the Java applet. By edit which becomes possible by Netscape Composer, Netscape Messenger application can transmit now the electronic mail message equipped with the appearance and behavior like a web page. However, the application of these conventional techniques is not equipped with the important organization capacity in the form which this invention proposes.

[0036] Furthermore, Lotus Domino (trademark) application is equipped with such a conversion technique. When a user demands the document which is not a HTML format with Lotus Domino (trademark) application, Lotus Domino (trademark) application changes the document into a HTML format, and a user enables it to peruse it.

[0037] After being received in a HTML format or changing a message into a HTML format, it is step 410, and CPU310 accesses a parser 350, it analyzes a received message and finds embedded URL. CPU310 can judge existence of URL by analyzing the taken-out message and detecting existence of a prefix "http", "ftp" and "gopher" are contained in another prefix which shows existence of URL. After analyzing URL embedded in the message, CPU310 is step 412 and supplies the data signal and control signal for displaying a message in a suitable form.

[0038] A suitable form to offer a message changes according to the class (namely, an electronic mail, a digital page, the short message from a cellular phone) of message to offer. For example, CPU310 can supply the suitable data signal and suitable control signal for the indicating-equipment adapter 338 through a system bus 312. The indicating-equipment monitor 338 enables it, as for the indicating-equipment adapter 336, to display the text of an electronic mail message on a user. Instead, although CPU310 is not illustrated by a pocket bell adapter, a cellular telephone adapter, and drawing 3 R 3, it can supply the suitable well-known data signal and suitable well-known control signal for the same equipment to this contractor. When a data signal and a control signal are received, a pocket bell adapter can emit a notice sound and can display the telephone number relevant to a message. Similarly, a cellular phone can emit a notice sound and can display the telephone number or a message according to short messaging service.

[0039] After displaying a message at step 412, CPU310 performs step 414 and adds subsection to the message currently displayed alternatively. The subsection used here functions in the same form as "bookmark (bookmark)" or a document fragmentation identifier. Subsection "can be added" to a message through automatic methodology and non-automatic methodology. When adding subsection to a message in a non-automatic form, a user can only add a "hyperlink" to the suitable location in a message.

[0040] In order to add a hyperlink, through use of other user inputs supplied to a mouse 326 or the user interface adapter 322, subsection is shown and it transmits to CPU310 after that. Please care about that carry out highlighting of the hyperlink or subsection is shown according to another well-known access methodology by pointing at the hyperlink text in the displayed message. Instead, the actuation which shows that subsection must be chosen manually and a hyperlink must be inserted there is automatable so that subsection may be added immediately after being identified by the external user. Please care about that subsection is automatically detectable in accordance with a predetermined decision criterion in the alternative example of this invention. For example, subsection can be automatically inserted, when a certain information in the "header" section of an HTML document is detected. When a user shows that subsection must be inserted, CPU310 supplies a data signal and a control signal required to insert a link identifier into the HTML code relevant to an electronic message. For example, the link relevant to subsections subsection1 and subsection2 is specified in the following form.

<a name="subsection1"> -- </a> <a name="subsection2"> -- > -- </a> [0041] When adding subsection to a message, CPU310 generates the suffix behind used in order to make URL corresponding to each of subsection perfect about each of subsection. This suffix is generated at step 416 of drawing 4. The identifier relevant to subsection chooses a user or a programmer, and should care about not being restricted to "subsection" shown in the example of this specification.

[0042] After adding all the subsections for which a user asks to a message, a user can create whether the category for storing a received message is chosen at step 418. The topic or identifier which an external user can choose for organization can be included in a category. When

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie

17/09/09

10/29 ページ

JP.11-232192.A [DETAILED DESCRIPTION]

Appendix A - Talking to Lawyers  
Glossary  
Index

## Chapter 1 - Getting Started

How to start at the beginning.

## Chapter 2 - Getting Going

Follow the yellow-brick road.

## Chapter 3 - Keep Going

Repeat: Follow the yellow-brick road.

## Chapter 4 - Don't Stop Now

Follow, follow, follow, follow, follow the yellow-brick road!

## Chapter 5 - Almost Finished

We're off to see the wizard, the wonderful wizard of OZ.

## Chapter 6 - Finishing Up

Put up your last, grab a coffee, and curl up with a good book.

Appendix A - Talking to Lawyers

It isn't so hard. There are a few things to keep in mind though:

## [Table 3]

1. Out to the point. Tempus fugit
2. Avoid promises you can't keep
3. Don't forget the Exp. at the end of the name when addressing correspondence
4. And by all means remember, lawyer letters are in poor form. They will probably get you off in a bad start and may ruin your chances at the patent office.

Index

Apple  
Application  
Boats  
Book  
Chicken  
Lizard  
Wizard

[0054] This message is changed into an HTML document (refer to Appendix A). In the following

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.ejje](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.ejje)

17/09/09

9/29 ページ

JP.11-232192.A [DETAILED DESCRIPTION]

into an HTML document or a web page the electronic message which the user received. Since a message can be carried out as a web page, the new language with which the new application and the object for the Internet for perusing these web pages are provided is actually easily [ the existing organization ] applicable.

[0052] The example of the message by which an index is created according to this invention is explained below. This example explains reception of the message within a user's system, and analysis of the step unit of storing.

[0053] It is assumed that the following electronic mail messages were received.

## [Table 1]

To: Bob  
From: Robert  
Subject: White Paper on Patents

Hi,

Here's the draft of the book on patents.

Hope you enjoy it. :)

Robert

\*\*\*\*\*

## Writing a Patent Application

## Abstract:

Writing a patent application can be a time-consuming, but rewarding activity. Decomposing the tasks valuable tool to manage the work.

## Table of Contents

## Abstract

## Table of Contents

## Chapter 1 - Getting Started

## Chapter 2 - Getting Going

## Chapter 3 - Keep Going

## Chapter 4 - Don't Stop Now

## Chapter 5 - Almost Finished

## Chapter 6 - Finishing Up

## [Table 2]

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.ejje](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.ejje)

17/09/09



12/29 ページ

JP.11-232192A [DETAILED DESCRIPTION]

```
<!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">
<HTML>
<HEAD>
<TITLE>WhitePaper on Patents</TITLE>
<HEAD>
<BODY>
<ADDRESS>
To: <A HREF="mailto:apple@winetad.com">Beth</A><BR>
From: <A HREF="mailto:ymail@icloud.com">Robert</A><BR>
Subj: WhitePaper on Patents<BR>
</ADDRESS>
<PRE>
HL
Here's the draft of the book on patents.
Hope you enjoy it. :)
Robert
*****
Abstract:
Writing a patent application can be a time-consuming, but rewarding
activity. Decomposing the tasks into subtasks can be a valuable tool to
manage the work.
Table of Contents:
Table of Contents
[Table 7]
```

17/09/09

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie

11/29 ページ

JP.11-232192A [DETAILED DESCRIPTION]

examples, an underline is given to the difference between an HTML document and an electronic mail. An HTML document becomes the following form.

```
[Table 4]
SUBJECT:HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">
<HTML>
<HEAD>
<TITLE>WhitePaper on Patents</TITLE>
<HEAD>
<BODY>
<ADDRESS>
To: <A HREF="mailto:apple@winetad.com">Beth</A><BR>
From: <A HREF="mailto:ymail@icloud.com">Robert</A><BR>
Subj: WhitePaper on Patents<BR>
</ADDRESS>
<PRE>
HL
Here's the draft of the book on patents.
Hope you enjoy it. :)
Robert
*****
Abstract:
Writing a patent application can be a time-consuming, but rewarding
activity. Decomposing the tasks into subtasks can be a valuable tool to
manage the work.
Table of Contents:
Table of Contents
[Table 5]
</PRE>
</BODY>
</HTML>
```

17/09/09

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie

[0055] The text is the same to a tail and the following HTML code is inserted in a tail.

```
[Table 5]
</PRE>
</BODY>
</HTML>
```

[0056] Then, a server generates URL of the following form for this message.  
<http://www.mailserverbethsoompany.com/mailboxes/beth/msg0001> [0057] This URL is kept by the main memory of the data processing system of this invention in order to use it at a next step. Then, it is assumed that this MESSE was displayed on the external user. When a user determines that he will call the automatic function for adding subsection to this message, a user chooses a "auto-index" function from an option menu in the one example of this invention. A user's system scans this message and looks for the function which can be recognized for index creation. The document which had the index which has the following forms created is brought about. An underline is attached to the difference between the auto-index version and an earlier version, and a difference of two documents is emphasized.

[Table 6]

14/29 ページ

JP.11-232192A [DETAILED DESCRIPTION]

Chapter 6 - Finishing Up<name>Chapter 6 - Finishing Up<size>  
 Put up your feet, grab a coffee, and curl up with a good book.  
 Appendix A - Working with a Patent Attorney's Name<name>Appendix A -  
 Working with a Patent Attorney<size>  
 It not so hard. There are a few things to keep in mind though:  
 1.) Get to the point. Tempus fugit  
 2.) Avoid promises you can't keep  
 3.) Don't forget the EPO at the end of the name when addressing  
 your postcard  
 4.) And by all means remember, lawyer jokes are in poor form.  
 They will probably get you off to a bad start and may ruin  
 your chances at the patent office.

Chapter 6 - Finishing Up<name>Chapter 6 - Finishing Up<size>

Apple

Banana

Chicken

Cow

Dog

[Table 9]  
 Index<name>Index<size>

Apple  
 Application  
 Banana  
 Book  
 Chicken  
 Cow  
 Dog

<PRE>  
 <BODY>  
 <HTML>

[0058] At this time, a user's system scanned the message, identified the suitable item including a chapter, an appendix, etc., and has attached the "tag." Next, it is assumed that it was thought that a user wanted to mark original subsection. A user "clicks" some message texts using a mouse. [ choose and ] A user chooses the item 4 of Appendix A, and if it assumes that the next reply was supplied, a user's system will answer using the following dialog.

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/08/09

13/29 ページ

JP.11-232192A [DETAILED DESCRIPTION]

Abstract  
 Table of Contents  
 Chapter 1 - Getting Started  
 Chapter 2 - Getting Going  
 Chapter 3 - Keep Going  
 Chapter 4 - Don't Stop Now  
 Chapter 5 - Almost Finished  
 Chapter 6 - Finishing Up  
 Appendix A - Working with a Patent Attorney  
 Glossary  
 Index  
 Chapter 1 - Getting Started<name>Chapter 1 - Getting Started<size>  
 How to start at the beginning.  
 Chapter 2 - Getting (r)ing<name>Chapter 2 - Getting Going<size>  
 Follow the yellow-brick road.  
 Chapter 3 - Keep Uniquely named<name>Chapter 3 - Keep Going<size>  
 Repeat: Follow the yellow-brick road.  
 Chapter 4 - Don't Stop Now<name>Chapter 4 - Don't Stop Now<size>  
 Follow, follow, follow, follow, follow the yellow-brick road!  
 Chapter 5 - Almost finished<name>Chapter 5 - Almost Finished<size>  
 We're off to see the wizard the wonderful wizard of OZ.

[Table 8]

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

JP.11-232192A [DETAILED DESCRIPTION] 16/29 ページ

"http://www.mailserver.bethscompany.com/mailboxes/beth/msg0001.html" is added to the file name "index.html" in the same storage space as step 1.  
3. Add URL of subsection immediately after URL of step 2 of "index.html".  
4. Store  
URLhttp://www.mailserver.bethscompany.com/mailboxes/beth/msg0001.html/#Patent\_Joke of the following format in the file name "index.html" in the storage space shown by http://www.mailserver.bethscompany.com/mailboxes/beth/jokes/lawyers.  
5. Store  
URLhttp://www.mailserver.bethscompany.com/mailboxes/beth/msg0001.html/#Patent\_Joke of the following format in the file name "index.html" in the storage space shown by http://www.mailserver.bethscompany.com/mailboxes/beth/jokes/patents.  
6. A system waits for the next demand of a user.  
[0061] At this time, the index is specified in the lower form.  
Primary index: http://www.mailserver.bethscompany.com/mailboxes/beth/index.html [Table 12]  
<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML.3.2//EN">  
<HTML>  
<HEAD>  
<TITLE>Saved Mail</TITLE>  
<META>  
<BODY>  
<UL>  
<LI>Index of Saved Mail</LI>  
</UL>  
<UL>  
<LI><a href="msg0001.html">Patent Application Status</a>  
<LI><a href="msg0001.html">More Info</a>  
<LI><a href="msg0001.html">Who's Who on Patents</a>  
</UL>  
<UL>  
<LI><a href="msg0001.html/#Abstract">Abstract</a>  
<LI><a href="msg0001.html/#Table of Contents">Table of Contents</a>  
<LI><a href="msg0001.html/#Chapter 1">Chapter 1 - Getting Started</a>  
<LI><a href="msg0001.html/#Chapter 2">Chapter 2 - Getting Going</a>  
<LI><a href="msg0001.html/#Chapter 3">Chapter 3 - Keep Going</a>  
<LI><a href="msg0001.html/#Chapter 4">Chapter 4 - Don't Stop Now</a>  
<LI><a href="msg0001.html/#Chapter 5">Chapter 5 - Almost Finished</a>  
<LI><a href="msg0001.html/#Chapter 6">Chapter 6 - Finishing Up</a>  
<LI><a href="msg0001.html/#Appendix A">Appendix A</a>  
<LI><a href="msg0001.html/#Glossary">Glossary</a>  
<LI><a href="msg0001.html/#Index">Index</a>  
</UL>  
</BODY>  
</HTML>

JP.11-232192A [DETAILED DESCRIPTION] 15/29 ページ

Subject: Patent\_Joke  
Categories: Joke-Lawyers  
Joke-Patents  
[0058] The corresponding point of a HTML message (HTML) is changed so that it may have the following format. Please care about having attached the underline to the difference between a front code and a lower code.  
[Table 10]

- Is not so hard. There are a few things to keep in mind though.
- 1) Get to the point. (Keep a log)
  - 2) Avoid promises you can't keep
  - 3) Don't forget the log at the end of the name when addressing correspondence
  - 4) And by all means remember: lawyers joke on me in poor form. They will probably get you off to a bad start and may ruin your chances at the new office. Subject: Patent\_Joke2size

Glossary<a href="Glossary">Glossary</a>  
Apple  
Banana  
Chicken  
Cow  
Dog  
Index<a href="Index">Index</a>  
Apple  
Application  
Banana  
Book  
[Table 11]  
Chicken  
Lizard  
Wizard  
</PRE>  
</BODY>  
</HTML>

[0060] It is assumed that it was finally determined that a user kept this message. In order to perform such a function, a user chooses "storage" function from the menu carried out by the operating system. Then, a user's system performs the following steps.  
1. A message is kept as a file name "msg0001.html" by the storage space specified by the following URL: http://www.mailserver.bethscompany.com/mailboxes/beth / 2URL

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.eje 17/09/09

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.eje 17/09/09

UP.11-232192A [DETAILED DESCRIPTION]

## Index of Saved Mail

- [Parent Application Status](#)
- [More Info](#)
- [White Paper on Parents](#)
- [Abstract](#)
- [Table of Contents](#)
- [Chapter 1 - Getting Started](#)
- [Chapter 2 - Getting Going](#)
- [Chapter 3 - Keep Going](#)
- [Chapter 4 - Don't Stop Now](#)
- [Chapter 5 - Almost Finished](#)
- [Chapter 6 - Finishing Up](#)
- [Appendix A](#)
- [Glossary](#)
- [Index](#)

**[0063]** After a user keeps two additional messages, an index is coded in the following format  
**[Table 14]**

**JP,11-232192.A [DETAILED DESCRIPTION]**

```
<DOCTYPE HTML PUBLIC "-//W3C/DTD HTML 3.2 ENGLISH">
<HTML>
<HEAD>
<TITLE>Banned Mail</TITLE>
<H1>Banned Mail</H1>
<H2>Index of Saved Mail</H2>
<div>
<div href="msg0001.html">Parent Application Setup</div>
<div href="msg0002.html">More Info</div>
<div href="msg0003.html">Welcome to WebPage on WebSite</div>
<div>
<div href="msg0001.html">Parent's Abstract</div>
<div href="msg0002.html">Table of Contents</div>
<div href="msg0003.html">Chapter 1 - Getting Started</div>
<div href="msg0004.html">Getting Started</div>
<div href="msg0005.html">Chapter 2 - Getting Going</div>
<div href="msg0006.html">Chapter 3 - Keeping Going</div>
<div href="msg0007.html">Chapter 4 - Don't Stop Now</div>
<div href="msg0008.html">Chapter 5 - Almost Finished</div>
<div href="msg0009.html">Almost Finished</div>
<div href="msg0010.html">Finishing Up</div>
<div href="msg0011.html">Appendix A</div>
<div href="msg0012.html">Appendix B</div>
<div href="msg0013.html">Parent Addendum</div>
</div>
</HTML>
```

[0064] When this code is performed, an index is displayed on a user's display in the following format.

[http://www4.ipd.icipigo.jp/cgi-bin/uran\\_web.cgi\\_ejje](http://www4.ipd.icipigo.jp/cgi-bin/uran_web.cgi_ejje)

60/60/11

[http://www4.ipd.ncip.go.jp/cgi-bin/tran\\_web.cgi\\_ejje](http://www4.ipd.ncip.go.jp/cgi-bin/tran_web.cgi_ejje)

17/09/09

**JP.11-232192.A [DETAILED DESCRIPTION]**

[illegible]

**[Table 17]**

[http://www4.ipdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejje](http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web.cgi_ejje)

JP.11-232192.A [DETAILED DESCRIPTION]

## Index of Saved Mail

- Patent Application Status From: Robert Tyxas Date: 11/01/97  
More Info From: Robert Tyxas Date: 11/02/97  
White Patent On Patents From: Robert Tyxas Date: 11/03/97

## Abstract

## Table of Contents

## Chapter 1 - Getting Started

## Chapter 2 - Getting Going

### Chapter 3 - Keep Going

## Chapter 4 - Don't Stop Now!

## Chapter 5 - Almost Finished

Chapter 6 - Vectors

## Appendix A

## Glossary

## Index

## Acknowledgment

**Y: Patient Addendum**

[0065] Please care about that the approach of displaying an index is very flexible, and it is powerful. The example shown above is for not making this invention not clear unnecessarily. For example, another method of adding information (the date and transmitting person) to an index is shown in a lower code.

[http://www4.ipdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

<b>[Table 19]</b>	<XMP><?xml PUBLIC "-//W3C//DTD XHTML 1.1 Transitional/
	<HTML>
	<HEAD>
	<TITLE>Index</TITLE>
	<BODY>
	<H1>Index</H1>
	<P>
	<A href="/swaps/index.html">Index</A>
	<A href="/tutorial/index.html">Tutorial</A>
	</BODY>
	</HTML>

[0070] Please care about that a user clicks either "Lawyers" or "Patents", and can display the contents of that archive in this code. Furthermore, it is assumed that it was determined that a user clicked a text "Lawyers". A user will access the file shown by the following URL: <http://www.maiserverbethscompany.com/mailboxes/beth/fakes/fakes/lawyers/index.html> [0071] The following code is taken out when the index is accessed.

[illegible]

[0072] Although this is stored in the storage space to which perfect description (Joke#1) was able to attach the label "Lawyers," please care about that it is the example which shows that "Patent\_Joke" which is a part of "WhitePaper on Patents" is not stored there. URL so and used for access of a storage space has pointed out the memory fragment which was able to attach the label within the original message. Such a situation is almost the same also about the folder called "Patents." This specification does not show the detail beyond this. However, in this archive, please care about that the same fragment in the message of the origin called "Patent\_Joke" is shared.

[0073] In the example below example A of actuation of others [Appendix A] it is assumed that the user has received the electronic mail message. Alphanumeric characters are contained in an electronic mail message as explained above. When the message is actually

[http://www4.jpdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejje](http://www4.jpdl.ncipi.go.jp/cgi-bin/tran_web.cgi_ejje)

17/09/09

21/29 ページ

[illegible]

0066] When the code shown above is performed, the following index is displayed on the display with which an external user is provided.

## Index of Saved Mail

Subject	From	Date
Patent Application Status	Robert Truett	11/01/97
Misc Info	Robert Truett	11/02/97
White Paper on Patents		
* Abstract		
* Table of Contents		
* Chapter 1 - Getting Started		
* Chapter 2 - Getting Going		
* Chapter 3 - Keep Going		
* Chapter 4 - Don't Stop Now		
* Chapter 5 - Almost Finished		
* Chapter 6 - Finishing Up		
* Appendix A		
* Glossary		
* Index		
Patent Address	Robert Truett	11/04/97
REU Y: Patent Address	Robert Truett	11/04/97

[0067] Furthermore, a user needs to care about that either a message or subsection can be

[http://www4.jpdl.ncipi.go.jp/cgi-bin/cran\\_web/cgi\\_ejje](http://www4.jpdl.ncipi.go.jp/cgi-bin/cran_web/cgi_ejje)

17/09/09

24/29 ページ

JP.11-232192.A [DETAILED DESCRIPTION]

[Table 24]  
 <!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">  
 <HTML>  
 <HEAD>  
 <BODY>  
 <ADDRESS>  
 To: <A HREF="mailto:apple@winad.com">Beth Appleby</A><HR>  
 From: <A HREF="mailto:tycas@winad.com">Robert Tycas</A><BR>  
 </ADDRESS>  
 <PRE>  
 Hi,  
 I have some more information for you.  
 Regards,  
 Robert  
 </PRE>  
 </BODY>  
 </HTML>

[0078] Furthermore, when the theme is specified by the original message, this is added to an address section.

[Table 25]  
 <!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">  
 <HTML>  
 <HEAD>  
 <TITLE>Fusion Applications</TITLE>  
 <META>  
 <BODY>  
 <ADDRESS>  
 To: <A HREF="mailto:apple@winad.com">Beth Appleby</A><HR>  
 From: <A HREF="mailto:tycas@winad.com">Robert Tycas</A><BR>  
 Subject: Fusion Applications</BR>  
 </ADDRESS>  
 <PRE>  
 Hi,  
 I have some more information for you concerning the invasion.  
 Regards,  
 Robert  
 </PRE>  
 </BODY>  
 </HTML>

[0079] Many methods of changing an example B document into HTML should exist, and these approaches should care about this contractor that it is common knowledge. Furthermore, although the above-mentioned explained the step which can be used for changing a document into HTML for the purpose of this invention, in the following examples, the document which has an attached file (enclosure) is received and the approach of filing is offered. In the following examples, the e-mail message is already created and please care about having two attached files, i.e., a jpeg image, and a gif image.

[0080] The message received by CPU310 is shown below.

[Table 26]

17/09/09

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie

23/29 ページ

JP.11-232192.A [DETAILED DESCRIPTION]

encoded as HTML, the message can specifically be easily detected by scanning the HTML element containing the first line which begins from <!DOCTYPE> declaration, and the HEAD element and BODY element following it. The example of such an electronic mail message is shown below.

[Table 21]  
 <!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">  
 <HTML>  
 <HEAD>  
 <TITLE>Sample HTML Document</TITLE>  
 ... 題名 設定  
 </HEAD>  
 <BODY>  
 ... 本文の body 部  
 </BODY>  
 </HTML>

[0074] Furthermore, when the message is not described by HTML, the message inserts the required theme field suitably, and can change it by carrying out the lap of the contents of an alphabetic character. For example, it is assumed that the following electronic mail message was transmitted.

To: BethFrom: RobertSubject: InformationHi, I have some more information for you.Regards, Robert [0075] In order to carry out the lap of the contents of an alphabetic character in the required field, the following wrappers are added to the contents of the message by CPU310.

[Table 22]  
 <!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">  
 <HTML>  
 <HEAD>  
 <HEAD>  
 <BODY>  
 Hi,  
 I have some more information for you.  
 Regards,  
 Robert  
 </BODY>  
 </HTML>

[0076] Next, since a format of a message is saved, a body part is surrounded with the <PRE> tag. This is shown below.

[Table 23]  
 <!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML.1.2 Final/EN">  
 <HTML>  
 <HEAD>  
 <HEAD>  
 <BODY>  
 <PRE>  
 Hi,  
 I have some more information for you.  
 Regards,  
 Robert  
 </PRE>  
 </BODY>  
 </HTML>

[0077] Then, "TO" field of the original message and the "FROM" field are used, and an address section is created. This creation is shown below.

17/09/09

http://www4.ipd.ncipi.go.jp/cgi-bin/tran\_web.cgi.ejie





JP.11-232192A [DETAILED DESCRIPTION]

27/29 ページ

[0084] Furthermore, this invention should care about that it can be used with "plug-in." Plug-in is the neologism which Netscape (trademark) made for the program which uses the interface with which it was opened to the public for extending a Netscape Navigator (trademark) browser. Plug-in is used for mainly offering the support of new data type, such as RealAudio (trademark) plug-in which introduces a streaming audio into WWW. By other plug-in, the strengthening function has been added to the browser. Although plug-in can also be used, it is not required of this invention. For example, when a MIME type is included in a message, plug-in can be used and data can be displayed on an indicating equipment. Furthermore, in order to read the message archived using this invention, plug-in can be developed specially.

[0085] As a conclusion, the following matters are indicated about the configuration of this invention.

- [0086] (1) In order to generate the step which takes out two or more electronic mail messages from a communication device, and the data value from which the 1st plurality was changed. The step which changes two or more electronic mail messages into the 1st format alternatively. The approach containing the step which stores two or more electronic mail messages in the 1st location in the step which generates the 1st identifier for two or more electronic mail messages, and the store identified by the 1st identifier for composing data within data processing system.
- (2) An approach given in the above (1) whose 1st identifier is the 1st URL
- (3) An approach given in the above (1) whose 1st format is a HyperText-Markup-Language format.
- (4) An approach given in the above (1) corresponding to the web page in a communication network in the 1st location identified by the 1st identifier.
- (5) An approach given in the above (4) whose communication network is the Internet.
- (6) Approach given in the above (1) whose at least one embedded indicator contains further the step which judges the time of being contained in two or more 1st electronic mail messages.
- (7) An approach given in the above (6) whose at least one embedded indicator is embedded URL
- (8) An approach given in the above (7) whose embedded URL is a link to the web page in a communication network.
- (9) An approach given in the above (1) which contains further the step which generates the 2nd identifier of the sake for two or more electronic mail messages part 1, and the step which stores a part for part 1 of two or more electronic mail messages in the 2nd location identified by the 2nd identifier.
- (10) Approach given in the above (1) containing the step which identifies the 1st property of further two or more electronic mail messages.
- (11) Approach given in the above (10) which contains further the step which displays two or more electronic mail messages in the format for which it opts with the 1st property.
- (12) The equipment for accessing two or more electronic mail messages. The conversion means combined with the equipment for [above-mentioned] carrying out access for changing two or more electronic mail messages into the 1st format in order to generate the data value from which the 1st plurality was changed. The discrimination decision circuit for generating the identifier corresponding to the data value from which the 1st plurality was changed. The communication network including a store circuit which is combined with a conversion means in order to receive the data value from which the 1st plurality was changed, is combined with a discrimination decision circuit in order to receive an identifier, and stores the data value from which the 1st plurality was changed into the storage location corresponding to an identifier.
- (13) A communication network given in the above (12) whose 1st identifier is the 1st URL
- (14) A communication network given in the above (12) whose 1st format is a HyperText-Markup-Language format.
- (15) A communication network given in the above (12) corresponding to the web page in a communication network in the storage location.
- (16) The approach containing the step of which two or more electronic filing documents are composed in two or more groups, and the step which assigns each of two or more groups URL for composing an electronic filing document within a computer network.

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

JP.11-232192A [DETAILED DESCRIPTION]

28/29 ページ

- (17) An approach given in the above (16) which contains further the step which assigns each of an electronic filing document Subsection URL, and the step which creates the hyperlink between the 1st electronic filing document of two or more electronic filing documents, and the 2nd electronic filing document according to corresponding URL.
- (18) An approach given in the above (17) of which the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document are composed by the 1st group of two or more groups.
- (19) An approach given in the above (17) in which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.
- (20) An approach given in the above (17) corresponding to Exterior URL in the 2nd hyperlink.
- (21) An approach given in the above (16) which contains further the step which judges whether an electronic filing document is a hypertext format, and the step which changes an electronic filing document into a hypertext format.
- (22) Approach given in the above (21) containing the step which creates URL for the section in the selected electronic filing document further.
- (23) An approach given in the above (16) whose at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.
- (24) An approach given in the above (16) which contains further the step which copies the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the step which changes URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.
- (25) Approach given in the above (16) which contains further the step which stores two or more electronic filing documents in the storage location relevant to URL
- (26) Approach given in the above (16) containing the step which requires access to two or more electronic filing documents in the storage location relevant to URL further.
- (27) Approach given in the above (16) which contains further the step which creates an accessible web page through URL.
- (28) Approach given in the above (27) corresponding to URL of two or more links assigned to each of two or more groups, respectively including the step which creates two or more links on a web page further.
- (29) Approach given in the above (16) which contains further the step to which an external user enables it to access at least the part of two or more electronic filing documents when an external user inputs URL into a computer network.
- (30) Approach given in the above (16) containing the step which an external user does further by the ability not accessing at least the part of two or more electronic filing documents when an external user inputs URL.
- (31) An approach given in the above (16) whose URL is a link to the web page in a computer network.
- (32) The category creation means for creating two or more categories by which URL is assigned to each, in order to carry out grouping of two or more electronic mail documents. The user dialogue means for assigning one alternatively of two or more categories is included by the electronic mail box for receiving two or more electronic mail documents and two or more electronic mail documents being alike, respectively. The electronic mail system which can assign URL corresponding to one URL in two or more categories of the electronic mail document to which plurality was assigned, respectively.
- (33) Electronic mail system given in the above (32) containing the translator for changing alternatively each of further two or more electronic mail documents into a hypertext format.
- (34) The computer program product including the means for composing two or more electronic filing documents in two or more groups, and the means for assigning each of two or more groups URL in a computer-readable medium for composing an electronic filing document within a computer network.

[http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

JP.11-232192.A [DETAILED DESCRIPTION]

29/29 ページ

- (35) A computer program product given in the above (34) which includes further the means for creating the hyperlink between the means for assigning each of an electronic filing document Subsection URL, and the 1st electronic filing document of two or more electronic filing documents and the 2nd electronic filing document according to corresponding URL.
- (36) A computer program product given in the above (34) in which the 1st electronic filing document of two or more electronic filing documents is contained in the 1st group of two or more groups, and the 2nd electronic filing document of two or more electronic filing documents is contained in the 2nd group of two or more groups.
- (37) A computer program product given in the above (34) corresponding to Exterior URL in the 2nd Hyperlink.
- (38) A computer program product given in the above (34) which includes further the means for detecting whether an electronic filing document is a hypertext format, and the means for changing an electronic filing document into a hypertext format.
- (39) Computer program product given in the above (34) including a means to create URL for the section in the selected electronic filing document further.
- (40) A computer program product given in the above (34) whose at least one of two or more groups contains electronic filing documents other than one of two or more electronic mail documents.
- (41) A computer program product given in the above (34) which includes further the means for copying the 1st electronic filing document of two or more electronic filing documents to the 2nd group of the 1st group to two or more groups of two or more groups, and the means for changing URL corresponding to the 1st electronic filing document of two or more electronic filing documents so that it may correspond to the 2nd group of two or more groups.
- (42) Computer program product given in the above (34) which includes the means for storing two or more electronic filing documents in the storage location relevant to URL further.
- (43) Computer program product given in the above (34) including the means for requiring access to two or more electronic filing documents in the storage location relevant to URL further.
- (44) Computer program product given in the above (34) including the means for creating further the web page which can be accessed through URL.
- (45) Computer program product given in the above (44) corresponding to URL of two or more links assigned to each of two or more groups, respectively including the means for creating two or more links on a web page further.
- (46) Computer program product given in the above (34) which includes a means for an external user to enable it to access at least the part of two or more electronic filing documents further when an external user inputs URL into a computer network.
- (47) Computer program product given in the above (34) which includes a means for an external user to prevent from accessing at least the part of two or more electronic filing documents further when an external user inputs URL into a computer network.
- (48) A computer program product given in the above (34) whose URL is a link to the web page in a computer network.

---

[Translation done.][http://www4.ipd.ncipi.go.jp/cgi-bin/tran\\_web.cgi.cgi](http://www4.ipd.ncipi.go.jp/cgi-bin/tran_web.cgi.cgi)

17/09/09

JP.11-232192.A [DESCRIPTION OF DRAWINGS]

1/2 ページ

## \* NOTICES \*

JP0 and NCIP1 are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\* shows the word which can not be translated.

3. In the drawings, any words are not translated.

## DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing an electronic messaging system by the block graphic form formula.

[Drawing 2] It is drawing by one example of this invention showing the usual Internet communication system by the block graphic form formula.

[Drawing 3] It is drawing showing the data processor by one example of this invention by the block graphic form formula.

[Drawing 4] It is drawing showing the approach enforced in order to perform archive of the electronic mail message by one example of this invention, storing, and fetch in the form of a flow chart.

[Drawing 5] It is drawing showing the index created according to one example of this invention by the block graphic form formula.

[Description of Notations]

102 Message Enclosure

104 Storage

108 E-mail User Equipment

108 Message Transfer Equipment

210 Server

212 Client

214 Internet Access Offer Contractor

216 Online Service Provision Contractor

300 Data Processing System

310 Central Processing Unit (CPU)

312 System Bus

314 Random Access Memory (RAM)

316 Programmable Read Only Memory (ROM)

318 Input / Output Adapter

320 Disk Storage

322 User Interface Adapter

324 Keyboard

326 Mouse

328 Loudspeaker

332 Trackball

334 Communication Adapter

336 Display Adapter

338 Display Monitor

350 Parser

352 Browser

354 Translator Program

502 Index

504 Index

[http://www4.ipdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejite](http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web.cgi_ejite)

17/09/09

JP.11-232192.A [DESCRIPTION OF DRAWINGS]

2/2 ページ

[Translation done.]

[http://www4.ipdl.ncipi.go.jp/cgi-bin/tran\\_web.cgi\\_ejite](http://www4.ipdl.ncipi.go.jp/cgi-bin/tran_web.cgi_ejite)

17/09/09

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☒ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**